Notebook, N-10-10-31

This notebook covers the period September 1910-November 1912. It contains a log by Edison and several unidentified experimenters of endurance tests on storage battery cells. The book appears to be part of a test series, but the other books have not been identified. One page has been removed from the book, although the sequentially numbered test entries are not interrupted. Inserted into the book is a one-page cell test report by George H. Hooper, Jr., dated July 1906. The front cover is labeled "Very Important," and "Iron 4508 to 1 to." The pages are unnumbered. Approximately 170 pages have been used.

William H. Hoey
STATIONER,
Good Work Promptly
68 Williams Street, N. Y.

Special # see between
#4992 + 3 inclusive and
after 4994

4510 — | 200 Run | 1825 | 1/2 | 2365 |

4508 Edison 99.—

Made last page

Pr29 5 gm new process
iron some up used test $CaCO_3$ —
Soaked 30 minutes XCP. ~~was~~
$BiCl_3$ acetone — washed acetone
XCP — dried hour heat 12 hours —
KOH & washed — 4 tubes —
21% KOH.

4509 —

Made last page

Reg 5 gm 7a
Soaked Ferrous Sulphate,
~~Bill~~ washed water — not dried
put in KOH, heated washed —
Made 4 tubes —
21% KOH.

4510 #1 Fe 5 gms. deep fractures
Soaked 10 min Bill's Acetone gms.
dried, then boil KOH + repressed.
21% KOH + 2 gm LiOH
against 2 regular mix tubes #49+50
which have been treated in Bill's
Acetone

4511	200	1/2
	1715	2250
4512	1800	2380
4513	1715	2490
4514	1830	2450

4511 #2 Fe 5, gms. deep pockets
Soaked 10 minutes Mercuric Chloride dissolved in Acetone saturated, dried then boiled in KOH, dried and repressed
21% KOH + 2 gm LiOH
Against 2 tubes which have been treated in $BiCl_3$ Acetone Tubes # 51 + 52

4512 #3 Fe 5, gms, deep pockets
Soaked in equal parts $BiCl_3$ + $HgCl_2$ Acetone dried, and then put in Ammonia + repressed
Against 2 tubes which have been treated in $BiCl_3$ Acetone. Tubes # 53 + 54
21% KOH + 2 gm LiOH

4513 #4 Fe 5 gms. deep pockets
Dipped 10 minutes $HgCl_2$ in Acetone, then Ammonia then wash for KOH + repressed
Against two tubes which have been soaked in $BiCl_3$ Acetone Tubes # 55-56
21% KOH + 2 gm LiOH

4514 #5 Fe. 5, gms, deep pockets
Soaked 10 minutes in $HgCl_2$ in Acetone, dried then put in Ammonia 1 hour washed out. Against 2 $BiCl_2$ Acetone soaked tubes # 57-58 Fe have been repressed
21% KOH + 2 gm LiOH

	200 Run	1/2
4515	1695	2120
4516	1575	2315
4517	1775	2365

4515 #8 Fe 5.gms. deep pocket
Same as #9 Except soaked Trisodium Ortho Phosphate. Put up with two BiCl3 Acetone treated Tubes # 59+60
21% KOH + 2 gm LiOH
Fe Pocket has been repressed.

4516 #7 Fe 5.gms. deep pocket
Soaked equal parts Acetone with HgCl2 + BiCl3 dried then KOH dried and repressed.
Against 2 tubes which have been treated in BiCl3 Acetone. Tubes # 61 + 62
21% KOH + 2 gm LiOH. Fe was repressed

4517 #9 Fe 5.gms. deep cup
Soaked Potassium Fluoride not dried, then in Co(NO3)2 dried not dry in 2% KOH, dried then in HgCl2 in half concentrated, then without drying put in KOH, washed out.
Put up with 2 tubes that were treated in BiCl3 Acetone Tubes # 63+64
21% KOH + 2 gm LiOH. Fe was repressed

	200	1/2
4518	1770	2250
4519	1545	2365
4520	1395	2175
4521	1610	2380

4518 #10 Fe 5. gms. deposit
Same as #9 Except soaked K Flouride and, then soaked in $BaCl_2$
Put with tubes that were treated in $BiCl_3$ Acetone. Tubes #65 + 66
21% KOH + 2 gm LiOH. Fe was repressed.

4519 #25 Reg. iron 5. gms with HgO
Dipped Sulphate Potash dried, then in $BaCl_2$. Soaked out. Put up with 2 Bi treated tubes #67 + 68
21% KOH + 2 gm LiOH

4520 #26 Reg iron 5. gms with HgO
Dipped in Sulphate Potash, dried, then in $BaCl_2$. Washed out, put up with 2 Bi treated tubes #69 + 70.
21% KOH + 2 gm LiOH

4521 #27 Reg iron 5. gms. with HgO
Dipped in Sulphate Potash dried, then in Strontia Chloride washed out, put up with 2 Bi treated tubes #73 + 74
21% KOH + 2 gm LiOH

	200	1/2
4522	1690	2375
4523	1715	2450
4524	1695	2360
4525	1535	2310

4522 #20 Reg iron 5.0gms with HgO
dipped in Potassium flouride dried then
dipped in Ba Cl2 washed and dried
Put up with 2 Bi treated tubes #75+76
21% KOH + 2 gm LiOH

4523 #21 Reg iron 5.0gms with HgO
dipped in K Flouride, dried then dipped
in Strontium Chloride, washed and dried
Put up with 2 Bi treated tubes #77+78
21% KOH + 2 gm LiOH

4524 #22 Reg iron 5.0gms with HgO
dipped in K Flouride then dried, then
dipped in Cadmium Chloride, washed
put dried. Put with 2 Bi treated tubes #79+80
21% KOH + 2 gm LiOH

4525 #23 Reg iron 5.0gms with HgO
dipped in K Flouride + dried then in
Calcium Chloride, washed dried.
Put with 2 Bi treated tubes # 81+82
21% KOH + 2 gm LiOH

	200	1/2
4526	1365	2085
4527	1275	1980
4528	1675	2225
4529	1550	2360

4526 #24 Reg iron 5 gms with HgO.
Dipped in K Flouride dried then in Magnesium Chloride, Washed out dried Put up with 2 Bi treated tubes #83+84.
21% KOH + 2 gm LiOH

4527 #28 Reg. 5 gms iron with HgO
Dipped Hexametaphosphate Soda - dried, then in Calcium Chloride. Wash Put up with 2 Bi treated tubes #85+86
21% KOH + 2 gm LiOH

4528 #29 Reg 5 gms iron with HgO
Dipped in Hexametaphosphate Soda, dried then in Barium Chloride. Washed. Put up with 2 Bi treated tubes #87+88
21% KOH + 2 gm LiOH

4529 #30 Reg iron 5 gms with HgO
Dipped in Hexametaphosphate Soda, dried then in Strontium Chloride. Washed out Put up with 2 Bi treated tubes #89+90
21% KOH + 2 gm LiOH

4530 #31 Reg iron 5 gm with HgO
Dipped Hexametaphosphate Soda,
dried then in Magnesium Chloride.
Washed out.
Put up with 2 Bi treated tubes #91+92
21% KOH + 2 gm LiOH

4531 #32 Reg iron 5 gms with HgO
Dipped in Hexametaphosphate Soda, dried
then in Cadmium Chloride Washed.
Put up with 2 Bi treated tubes #93+94
21% KOH + 2 gm LiOH

4532 #44 Reg. 5 gm Fe with HgO.
Dipped in Ferrous Sulphate ½ hour dried,
then when hot redipped 1 second in
Ferrous Sulphate, put in 2% + brought early
to boil for several hours on hot plate.
Washed out twice dried.
Put up with 2 Bi treated tubes # 97+98
21% KOH + 2 gm LiOH

4533 #45
Duplicate of # # 44
21% KOH + 2 gm LiOH
Put up with 2 Bi treated tubes # 99 + 100

4534 #33 Reg. 5 gms Fe with HgO
Dipped in Trisodium ortho phosphate
dried, then dipped in $BaCl_2$, then washed
and dried.
Put up with 2 Bi treated tubes # 101 + 102
21% KOH + 2 gm LiOH

4535 #34 Reg. 5 gms Fe with HgO
Dipped in Trisodium orthophosphate dried,
then dipped in Strontium Chloride, washed
dried.
Put up with two Bi treated tubes # 103 + 104
21% KOH + 2 gm LiOH

4536 #35 Reg. 5 gms Fe with HgO
Dipped in Trisodium orthophosphate
dried, then in Calcium Chloride washed out
dried.
Put up with 2 Bi treated tubes # 105 + 106
21% KOH + 2 gm LiOH

4537 #36 Reg. 5 gms Fe with HgO
Dipped in Trisodium orthophosphate
dried, then in Magnesium Chloride, washed,
dried, put up with 2 Bi treated tubes # 107 + 108
21% KOH + 2 gm LiOH

4538 #37 Reg 5 gms Fe with HgO
Dipped in Trisodium Orthophosphate
Dried then in Cadmium Chloride, washed & dried
Put up with 2 Bi treated tubes # 109 + 110
21% KOH + 2 gm LiOH

4539 Old irons from cell # 8111
Dipped in FeSO4, dried, then boiled
21% KOH washed out and dried
21% KOH + 2 gm LiOH
Bi treated tubes # 111 + 112
4540 Dups of # 4539.
21% KOH + 2 gm LiOH
Bi treated tubes # 113 + 114

4541 #40 Fe 5 gms Reg with HgO
Dipped in Ferric Chloride Anhydrous in
Acetone 15 minutes, then dried and put in
21% KOH + Boiled and washed out + dried
Attacks the grid slightly
Put up with Bi treated tubes # 115 + 116
21% KOH + 2 gm LiOH
4542 Duplicate of # 4541 #41
Put up with Bi treated tubes # 117 + 118
21% KOH + 2 gm LiOH

4543 Drawn from Bll #8358 which have been scalped out, dried. Reduced in hydrogen, allowed to cool in hydrogen and water run in after cold, then dried and pressed. They were very much swelled.
Put up with 2 tubes #1334-1334

21% KOH Run Cold

4544 Slug of #4543
21% KOH Run Cold
Put up with 2 tubes #1354-1356

8358 from

4545 #42 5 grm Fe Reg with H_2S
Dipped in Ferric Chloride in Acetone, dried boiled KOH, washed and dried on filter paper night in contact with hot plate for 1½ hours Put with Bi treated tubes #9.54%
21% KOH + 2 grm LiOH

4546 #43 Slug of #4545 Except
Put up with 6 Long tubes
21% KOH + 2 grm LiOH

4547 Brought from cell #10177

Put up with 2 tubes # 137 + 138

21% KOH

4548 Dupl. of #4547

Put up with 2 tubes # 139 + 140

21% KOH + 2 gm LiOH

4549 New Process Fe_2O_3

baked and ground 3 times then baked at 15 atm and put in regrumps reg pressure. 6.5 gm Rabbit.

21% KOH + 2 gm LiOH

Put with 2 reg tubes # 141 + 142

4550 Fe_2O_3 6.5 baked at 150 atm

21% KOH + 2 gm LiOH

Put up with 2 Reg tubes # 143 + 144

4551 Soaked in Antimony Trichloride in Acetone
Put up with 6 long tubes.
21% KOH + 2 gm LiOH

4552 Samps. of #4551.

21% KOH + 2 gm LiOH

4553 } Fe Mix 2% HgO
4554 } 21% KOH + 2 gm LiOH 5.7 gm

4555 } Fe Mix 3% HgO " "
4556 } 21% KOH + 2 gm LiOH

4557 } Fe Mix 4% HgO " "
58 } 21% KOH + 2 gm LiOH

4559 } Fe Mix 5% HgO " "
60 } 21% KOH + 2 gm LiOH

4561 } Fe Mix 6% HgO " "
62 } 21% KOH + 2 gm LiOH

4573	350	½	M	500	½	H
	1V					
	1925	2100	1530	1785	2175	1330
	2200	2420	1515	1700	2160	1270

4573	550	½	600	⅓	700	½	1
	2100	2850	2070	2525	1200	1940	1600 2456
	1640	2490	2030	2458	990	1245	1245 1720

5578	400	½	400
	1V		
	1900	3020	
	1900	2945	

4513 to 4577 various weights and Temps — Run about the same after 600 Run

150 Run —	1V	½	Not	800	½	H
	2950	4175	1345	1990	1420	1635
	2950	4165	1290	1940	1605	1350
200	1945	4225	1345	850		
	2945	4130	1405	1200	1640	
				1160	1580	
250	2700	4090	1550	900		
	2775	4175	1471	1400	1710	
300 —	2925	3390	1555	900	1575	
	2650	3625	1465			

4563 } Fe Mix 7 % HgO 5. gm
64 } 21% KOH + 2 gm LiOH

4565 } Fe Mix 8 % HgO "
66 } 21% KOH + 2 gm LiOH

4567 } Fe Mix 9 % HgO "
68 } 21% KOH + 2 gm LiOH

4569 } Fe Mix 10 % HgO "
70 } 21% KOH + 2 gm LiOH

4571 Regular Fe # 972 5. gm
Six short tubes 16.8% 12i speed
used Lot 159 — 12i flake 4.2 Inbecon 23.9
#1 Machine
21% KOH + 2 gm LiOH

4572. Dup. of above #1571
21% KOH + 2 gm LiOH

4573. RQ # 1184 Fe — against yellow tube
Machine loaded 19 dumps
6 lb 13 oz weight at 10.114
" 10,080 — 19 dumps. About 531 Milligrams per dump

4574
21% KOH + 2 gm LiOH

4575

200 Run —	2500	3530	1435	850	1/2	
	2300	3450	1404	1385	2155	
	2700	3545	1450	1325	2090	
				1180	2165	
250	4575 2700	3750	1365	900		
	4576 2530	3440	1255	1130	1790	
	4577 2300	3220	1205	1100	1835	
				1200	1900	
300	4575 2600	3800	1467			
	4576 2150	3370	1371			
	4577 2150	3320	1471			
500 —	4575 1775 2000					
	6 920 1450					
	7 1195 1970					
250	2700	3750	1365	76 2025	1/2	
	2530	3440	1255	77 2020	2090	
	2300	3220	1205		2650	
					2510	
350	4575 1800	2945	1610	770		
	1500	2520	1490	860	1425	
	1600	2390	1460	1270	1235	
					2000	
250						
4575 = 300				450		
	2255	3300	1600	1500	1/2	
	1825	2490	1565	1675	2915	
	1900	2870	1650	1700	2460	
					2475	
4575						
500	1/2	1/2	600	1/2	600	
1900	2525	1375	1350	2225	1260	1763
1360	2155	1260	1450	2310	1110	1955
1900	2515	1310	1580	2360	1490	2075

850	1/2	4575	1/2
1385	2155	1195	
1325	2090	1195	
1180	2165	1970	
900		4575	1/2
1130	1790	1600	2000
1100	1835	1320	1790
1200	1900	4575	1645
650	1/2		
4575	1690		
76	2025		2090
77	2020		2650
			2510
770			
860	1425		
1270	1235		
	2000		
450			
1500	1/2		
1675	2915		
1700	2460		
	2475		

4575 Rd. #1184 Fe mix
Loaded in machine Room #2
5 lb weight
30 dumps per wt. 9.932
21% KOH + 2 gm LiOH Run Regular
About .331 milgms per dump.

4576 Like of 4575 Except
3½ lb weight
27 dumps per wt 9.448
21% KOH + 2 gm LiOH Run Regular
About 350 milgms per dump.

4577 Like of 4575 Except
2 lb weight
35 dumps per wt 9.943
21% KOH + 2 gm LiOH Run Regular.
About 357 milgms. per dump.

4578-79. Rd. #1196 Fe mix.
Two 5 gms pockets.
Charge + discharge twice, then charge full + remove from cell recrystalize quickly to 300 ttha + put back. Run Regular with 4 tubes.
21% KOH + 2 gm LiOH

4580-81. Dup of 4578 Except
Charged & discharge twice, then charged and taken out, and allowed to self heat till cold - then wash out KOH dry & repress at 200 atms.
21% KOH + 2 gm LiOH

4582-83. Rd. # 1196 Fe Mix.
1½ lb tamp and 6 Milligms of #1123 Ni flakes after each dump of iron. Assemble with # nickel tubes.
21% KOH + 2 gm LiOH Run Regular.
for endurance.
7,500 gms of Fe + 600 Ni flakes Lot 1123.

4584. Rd. Fe without Mercury, added to it 5% Bi Hydroxide
5 gm cake regular pressure.
Put up with # tubes.
21% KOH + 2 gm LiOH Run Regular

4585 Dup of 4584 Except used 10% Bi Hydroxide
21% [illegible] Run Regular

4586 Dup of 4584 Except use 15% Bi Hydroxide
21% KOH + 2 gm LiOH Run Regular

		IV	½	H
50 Run	4554	590	825	1315
	4555	1175	1400	1295
	4556	2130	3075	1275
100	4584	45	165	1510
	4585	65	205	1260
	4586	85	290	1260
150		15	45	1500
		25	110	1530
		15	160	1540

Note, Bi makes contact

50

1800	2600	1385
1710	2500	940
1700	2400	1430

1710 Run 1/4

1385	1747
1205	1830
1360	1920

960	820	1620
645	925	1320

4587 Iron Oxide no HgO
mixed 10% metallic Antimony, reduced to fine powder by hydrogen with it.
Put up with 4 tubes
2 pockets 5 gms each.
21% KOH + 2 gm LiOH Run Regular
4588.

4589 R.A. #1196 Fe Mix
5 gms each in pockets that have not been nickel plated.
Put up with 4 tubes each.
Run Regular
wt 5.000
4590 " 5.000
4591 " 5.000

4592 R.A. #1196 Fe Mix – mixed with 15% Bi hydroxide. Put up with 4 tubes
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4593 " 5.000

4594 RA #1196 Fe Mix mixed with 25% Bi hydroxide. Put up with 4 tubes
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4595 " 5.000

50 R 1/2
1270 1700
1396- 1880

500 600
496 475

440 567
255 340

60 115
165 220

4596 Fe no HgO mixed with 25% Bi hydroxide. Put up with 4 tubes
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4597. " 5.000

4598 Rd. # 1196 Fe mix. mixed with 10% Cobalt powder reduced by hydrogen. Put up with 4 tubes.
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4599. " 5.000

4600 Sample of 459 8 Except use 15% Co.
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4601 " 5.000

4602 Sample of 4598 Except use 20% Co.
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4603A wt 5.000

4604. Sample of 4598 Except use 30% Co.
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4605. wt 5.000

4606-7

1100	1025
1355	1225
110	100
1270	1220
137	125
225	225
340	335
470	500
470	500
555	575

4608-9

250	10
330	25
50	0
75	25
50	0
75	37
115	15
135	30
125	25
150	50

4610-11

1025	1240
1325	1610
162	487
237	737
237	537
450	822
590	1085
765	1400
785	1100
1000	1430

4612-13

1250	1250
1570	1635
325	587
487	887
437	650
650	1042
995	1260
1225	1698
1065	1290
1300	1730

4606. R.G. # 1196 Fe Wire
Put up in pockets that have been Silver plated. Put up with 4 tubes
21% KOH + 2 gm LiOH Run Regular
wt 5000
4607 " 5,000

4608 Dup of 4606 Except use the iron that has no Hgl in it.
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4609. 5,000

4610. RG # 1196 Fe 2 mix mixed with 5% very finely powdered Red Oxide of iron
21% KOH + 2 gm LiOH Run Regular
Put up with 4 tubes.
wt 5000
4611 " 5000

4612 Dup of 4610 Except use 10% Red Oxide iron.
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4613 " 5.000

4614-15

1100	1260
1520	1790
175	570
325	850
475	725
825	1125
1245	1885
1620	1885
1975	1400
1800	1850

4750

4616-17

1100	1100
1310	1360
112	125
200	212
262	262
425	425
500	500
990	985
810	810
1010	1000

4614 Sample of 4610 Except used 20% Red iron oxide.
21% KOH 3 gm LiOH Run Regular
wt 5.000
4615. " 5.000

4616. Sample of 4610 Except used 33% Red iron oxide.
[illegible] Run Regular
wt 5.000
4617. " 5.000

4618 Fe with no HgO mixed with 25% Red iron oxide.
[illegible] Run Regular
Put up with ⚲ stopper.
wt 5.000
4619. " 5.000

4620. Rd. 1196 Fe Mix mixed with 10% ferric oxide, from igniting the nitrate of ferrum
21% [illegible] Run Regular
wt 5.000

4621 Sample of 4620 Except use 15% ferric oxide. wt 5.000
[illegible] Run Regular

4622 Mixture of 4620 Except wet
25% ferric oxide.
21% KOH + 2 gm LiOH Run Regular
wt 5.000

4623 Ferric Hydroxide
ignited at full yellow heat (1100°C) AMG
ground up very fine swelled
wt 5.000
21% KOH + 2 gm LiOH Run Regular

4624 Ferric hydroxide Don't give anything
ignited at 1250°C
21% [illegible] Run Regular
wt 5.000
ground very fine not ignited enough I guess

4625 Regular Red Iron from igniting
Sulphate at high heat ground fine
pressed at 300 Atms.
21% KOH + 2 gm LiOH Run Regular
No Current
wt 5.000
4626 wt 5.000

4627 Mixture of 4625 Except wet
till it felt damp, CO
21% [illegible] Run Regular
pressed at 300 Atms. No current wt 5.000
4628 wt 5.000

	1580	2330	
66	1590	2350	
	IV	½	Hot
50	640	800	1740
	660	790	1750

No Current

N4

N9 No Current

Neo-	130	340	
	130	340 -	
50	175	425	1479
	185	450	16.7

4629 Fe Regular Fe mix #1349.
Put up with 4 tubes that have 15%
Bi_2O_3 mixed with #1256 $Mn(OH)_2$
The Bi thru 100 on 90 mesh.
wt 5. gm pellets
4630 Fe wt 5. "
21% KOH + 2 gm LiOH Run Regular

4631 Fe Brown Oxide Fe_2O_3
Made by igniting Fe Nitrate
21% KOH + 2 gm LiOH Run Regular
wt 4.085
4632 wt 4.085
Regular pressure

4633 Fe Magnetic Fe-oxide Fe_3O_4
Obtained by wet reduction of Ferric hydroxide
dried at 150 & lorrigated at 350 atmos.
Set up with 4 Bi tubes against each Fe.
21% KOH + 2 gm LiOH Run Regular
wt 5.000
4634 Fe " 5.000

4635 Fe #1349 Brown mix mixed with
20% Bismuth Oxide thru 180 mesh
2 – 5 gm. pellets.
21% KOH + 2 gm LiOH Run Regular
4636 Fe

Hot 4640-1 ½

905	1110	1370	500	562
935	900	1035	500	525
	878	1010	910	1045

50

870 885

1010 1020

Co

4637Fe Put up 2 tubes with
Goldsteins # 40 f Ni Oxf/2 Lot 41 Ni flake
dump 27 grams, then ¼ flake + tamp
Run as iron
21% KOH + 2 gm LiOH Run Regular
and 5 gm Pocket

4638Fe #1349 Iron Wire
Pressed 2 iron cakes at 300 tons
and put in pocket loose
not crimped or corrugated
Put up with ¼ tubes wt 5.000
each. wt 5.000
21% KOH + 2 gm LiOH Run Regular
4639Fe

4640Fe Cadmium Hydroxide Sept 7, 10
~~Lot~~ 41 Ni flake = 40 Cd = 27.0 #1 Mach.
21% KOH + 2 gm LiOH Run Regular
dump 27 Cd, then ¼ flake + tamped
Pressed into discs, then through 30 on 190 mesh.
Tubes to be run as Fe
2½ dumps wt 8.991

4641Fe .290 " wt 8.991
very heavy.

50	1/2	
420	430	Co
425	435	

50 Run		1/2			
855		930			
1160		1285			
	400	1/2	458	1/2	
4646	2200	3425	1790	3040	
7	2200	3425	1740	2975	
8	2440	3790	2000	3325	

new -
2830 2990
2930 4115
2675 3735

Cold test.

		75 Tubes		42 Tubes	
		2830	3990	2310	3520
		2930	4115	2500	3635
		2675	3755	2300	3395
50	100	150	200	250	300
3980	3100			2900	2850
3835	3150	2710	2925	2800	2760
3010	2900	2835	2770	2580	2760
		2820	2720		
500	1	550	600		
3010	3350	1880	2000		
3895	3260	1985	2000	1640	2000
3630	3275	1985	2000	1800	2920
			2000	1820	3315

4642Fe Cadmium Oxide Sept. 7, 10.
Lot 41 in flake = 4.0 Cd = 26.9 # mesh.
21% KOH + 2 gm LiOH Run Regular
Pressed into discs at 300 atms, then thrown, 300 on 1 gauze
dump 29 Cd, then 4 flake + tamp
Tubes to be run as Fe
313 dumps wt 10.514
4643Fe 339 " wt 10,433
very heavy

4644Fe Cadmium CO3 reduced by CO gas. Sept. 7, 10.
Lot 41 in flake = 4.0 Cd = .029 # mesh.
21% KOH + 2 gm LiOH Run Regular
Pressed into discs at 300 atms, then thrown, 300 on 1 gauze mesh.
Tubes to be run as Fe
dump 29 Cd, then 4 flake + ~~tamp~~
481 dumps wt 15.770
4645Fe 485 " wt 16,110.
Had to feed .029 per dump as slide sticks almost closed

4646Fe 3 pockets #1349 In Mina Oct 31, 10.
7 lb wt, to be made with about
30 dumps per pocket.
24 dumps wt 10.414
4647Fe 26 " " 10.40
4648Fe 26 " " 10.588
Average per dump about 418 milligms.
21% KOH + 2 gm LiOH

Recs 1/2
2450 3700
2360 3400
2475 3530

50 100 150 200
2790 3100 2650 2800
2760 2760 2175 2700
2865 2763 2473 2575
500 1990 3100 500 2600
1900 3160 2350 2275
2100 2050 2450 2583

Cold test 75 Fahr 1/2 42 Fahr

4649 400 1/2 2450 3700 1890 2775
50 2600 3985 1950 2850
54 2175 3375 2380 3400 1675 2450
4649 400 2475 3532
56 1780 3075 500 1900 3385 1195 1700 3130
57 1700 3153 1820 1170 1800 3200
1885 3030 1925 3060 1200 1735 3010

Recs

50 100 150 200 250
2540 3600 3060 3120 2915 2960 2900
2500 3550 2960 2850 2700 2700 2800
2380 3400 2900 2860 2635 2500 2820
500 2500 3100 2500 3500

Cold test 75 Fahr 42 Fahr

4652 1/2 2540 3400 2400 3570 2400 3520
53 2600 4100 2500 3550 2375 1995 2575
54 2400 3775 2360 3400 2360 3261 2185 3165
4652 400 2375
55 2360 3675 500 2465 3880 3500
2065 3350 2100 3475 1840 3225
2100 3350 2150 3420 2036 3400

Recs

50 100 150 200 250
2300 3300 2815 2820 2500 2570 2450
2450 3475 3075 2960 2755 2585 2850
2480 3450 3075 2755 2570 2400 2785
500 2470 3450 3475

Cold test See next page

75 Fahr 42 Fahr

2300 3300 2190 3180
2450 3475 2305 3400
2480 3450 2195 3180
4653 400 2500 500
56 2400 3764 2390 1500 2385 3450
57 2400 3470 2135 3117 2360 3270
1890 3155 2100 3215

4649 Fe Used of 4646 Except Oct. 31, 10.
used 8 lb weight.
29 dumps wt 10.887
4650 Fe 28 " " 10.783
4651 31 " " 10.822
21% KOH + 2 gm LiOH
Average about 373 milligms per dump.
Too hard to crimp and coagulate properly.

4652 Fe Used of 4646 Except Oct. 31, 10.
used 10 lb weight. Had to use tool steel dump.
32 dumps wt 11.195
4653 Fe 34 " wt 11.181
4654 32 " 10.034
21% KOH + 2 gm LiOH
Average about 327 milligms per dump.
Too hard to crimp or coagulate properly.

Oct. 31, 10

4655 Fe Used of 4646 Except
used 14 lb weight
27 dumps wt 11.412
4656 Fe 30 " wt 11.697
4657 Fe 29 " " 11.522
21% KOH + 2 gm LiOH
Average about 412 milligms per dump.
Too hard to crimp or coagulate properly.

	558		6.0	
4655	2300	2270	2000	3300
56	2400	2075	1965	3255
57	2050	2100	1935	3170

This is good on Cold test,

Nov. 10, 10.

4658 Fe 5 gm Fe pockets for Holland
Snow Min # 1849.
21% KOH + 2 gm LiOH per 175 cc

wt 5.000
" 5.000

4659 Duplicates start 4695

4660 Fe Dup of 4658 Except
23% KOH + 2 gm Li OH per 175 cc

wt 5.000 Nov. 10, 10.

4661 " 5.000

4662 Dup of 4658 Except
25% KOH + 2 gm Li OH per 175 cc

Nov. 10, 10.

wt 5.000

4663 " 5.000

4664 Dup of 4658 Except
27% KOH + 2 gm LiOH per 175 cc

wt 5.000 Nov. 10, 10.

4665 " 5.000

ng cold 42

ng "

ng "

~~ng~~ shows something not much at 42 days.

4666 Same of 4658 Except
21% KOH + 2 gms LiOH + 1 gm KCl per 17.5 cc
wt 5.000 Nov. 10, 10
4667 " 5.000

4668 Same of 4658 Except
21% KOH + 2 gm LiOH + 3 gms KCl per 17.5 cc
wt 5.000 Nov. 10, 10.
4669 wt 5.000

4670 Same of 4658 Except
21% KOH + 2 gm LiOH + 5 gms KCl per 17.5 cc
wt 5.000 Nov. 10, 10.
4671 " 5.000

4672 Same of 4658 Except
21% KOH + 2 gm LiOH + 1 gm KBr per 17.5 cc
wt 5.000 Nov. 10, 10
4673 " 5.000

4674 Help of 4658 Except
21% KOH + 2 gm LiOH + 3 gms KBr per 175 cc
wt 5.000 Nov. 10, 10.
4675 " 5.000

4676 Help of 4658 Except
21% KOH + 2 gm LiOH + 5 gms KBr per 175 cc
wt 5.000 Nov. 10, 10.
4677 " 5.000

Nov. 16, 10.
4678 1349 Fe mix
21% KOH + 2 gm LiOH + 2 gms KCl run
regular once at both rates, then run in
ice chest (Run against 4679 wt 5.000
Regular tube used " 5.000
4679 Duplicates starts at # 4715 Fe

4680 Help of 4678 Except Nov. 16, 10
21% KOH + 2 gm LiOH + 3 gms KCl
wt 5.000
4681 " 5.000

4682 Clup of 4678 Except Nov. 16, 10.
21% KOH + 2 gm LiOH + 5 gms KCl.
wt 15.000
4683 " 5.000

4684 Clup of 4678 Except Nov. 16, 10.
21% KOH + 2 gm LiOH + 3 gms KCl and run against tubes from Collection 621. NiOH2.
12% Bismuth green. wt 5.000
4685 " 5.000

4686 Clup of 4678 Except Nov. 16, 10.
25% KOH + 2 gms LiOH
wt 5.000
4687 " 5.000

4688 Clup of 4678 Except Nov. 16, 10.
27% KOH + 2 gms LiOH.
wt 5.000
4689 " 5.000

4690 Clup of 4678 Except Nov. 16, 10.
21% KOH + 2 gm LiOH + 3 gms Hydroxide.
wt 5.000
4691 wt 5.000

4692 Dup of 4678 Fe pocket Nov. 16, 10.
18% KOH + 3 gms Na OH + 6 gms Li OH
wt 5.000
4693 " 5.000
All the irons in this series should have regular runs + then run in ice chest

4694 Magnetic Iron Fe_3O_4 Nov 18, 10.
Obtained by decomposing of ferrous ammonium pyrophosphate by boiling with KOH.
21% KOH + 2 gm LiOH Run Regular
Put up with 4 michel tubes.
Pressed into cake at 300 atms + Corrugated at 300 atms
wt 5.000.
very bulky

4695 Fe Dup of Series of 4658 Fe Nov 23 10.
Fe pocket cut to cut 5 gram iron mix
Fe Mix 1491.
21% KOH + 2 gm LiOH till formed then
then run regular in 21% KOH + 2 gm LiOH
wt 5.000.
4696 " 5.000

4697 Heup of 4660 Nov. 23, 1
Iron Mix 1491
21% KOH + 2 gm LiOH after forming cha
solution to 23% KOH + 2 gms LiOH per 175 cc
wt 5.000
4698 " 5.000

4699 Heup of 4662 Nov. 23, 1
Iron Mix 1491
21% KOH + 2 gm LiOH after forming cha
solution to 25% KOH + 2 gms LiOH.
wt 5.000
4700 " 5.000

4701 Heup of 4664 Nov. 23,
Iron Mix 1491
21% KOH + 2 gm LiOH after forming chang
solution to 27% KOH + 2 gms LiOH.
wt 5.000
4702 " 5.000

4703 Heup of 4666 Nov. 23, 1
Iron Mix 1491
21% KOH + 2 gm LiOH after forming
change solution to 21% KOH + 2 gm LiOH
+ 1 gm KCl per 175 cc
wt 5.000
4704 " 5.000

Low

4705-6

1570	1580
1800	1900
1795	1865
4707-8	
1500	1575
1675	1850
1700	1850
4709-10	
1500	1535
1700	1750
1700	1760
4711-12	
1540	1575
1765	1800
1800	1800

4705 Clips of 4668 Nov. 23, 10.
Iron wire 1491
21% KOH + 2 gm LiOH after forming change
solution to 21% KOH + 2 gm LiOH + 3 gms
KCl per 175cc wt 5.000
4706 " 5.000

4707 Clips of 4670 Nov. 23, 10.
Iron wire 1491
21% KOH + 2 gm LiOH after forming change
solution to 21% KOH + 2 gm LiOH + 5 gms
KCl per 175cc wt 5.000
4708 " 5.000

4709 Clips of 4672 Nov. 23, 10.
Iron wire 1491
21% KOH + 2 gm LiOH after forming change
solution to 21% KOH + 2 gm LiOH + 1 gm
K.Br per 175cc wt 5.000
4710 " 5.000

4711 Clips of 4674 Nov. 23, 10.
Iron wire 1491
21% KOH + 2 gm LiOH after forming change
solution to 21% KOH + 2 gm LiOH + 3 gms
K.Br wt 5.000
4712 " 5.000

4713–14	
1575	1570
1850	1850
1850	1855
4715–16	
1500	1400
1680	1585
1700	1600

4719–20	
1515	1550
1730	1700
1730	1700

750 ma
1425–1320 – Very high –

4713 Slip of 4676 Nov. 23, 10.
Brown Mix 1491
21% KOH + 2 gm LiOH after forming change solution to 21% KOH + 2 gm LiOH + 5 gms KBr
wt 5.000
" 5.000
4714

4715 Slip of 4678 Nov. 23, 10.
Brown Mix 1491
21% KOH + 2 gm LiOH after forming change sol. to 21% KOH + 2 gm LiOH + 2 gm KCl
wt 5.000
" 5.000
4716

4717 Slip of 4680 Nov. 23, 10.
Brown Mix 1491
21% KOH + 2 gm LiOH after forming change sol. to 21% KOH + 2 gm LiOH 3 gm KCl
wt 5.000
" 5.000
4718

4719 Slip of 4682 Nov. 23, 10.
Brown Mix 1491
21% KOH + 2 gm LiOH after forming change solution to 21% KOH + 2 gm LiOH + 5 gms KCl.
wt 5.000
" 5.000
4720

4721 Sleeve of 4684 Nov. 23/10.
Snow Mix 1491
21% KOH + 2 gm LiOH after forming change
solution to 21% KOH + 2 gm LiOH + 3 gms KCl
This group is to be run against Edison Bi green 64
12½% Bi wt 5.000
4722 " 5.000

4723 Sleeve of 4686 Nov. 23/10.
Snow Mix 1491
21% KOH + 2 gm LiOH after forming change
sol. to 25% KOH + 2 gms LiOH.
wt 5.000
4724 " 5.000

4725 Sleeve of 4688 Nov. 23/10.
Snow Mix 1491
21% KOH + 2 gm LiOH after forming change
sol. to 27% KOH + 2 gms LiOH
wt 5.000
4726 " 5.000

4727 Sleeve of 4690 Nov. 23/10.
Snow Mix 1491
21% KOH + 2 gm LiOH after forming change
sol to 21% KOH + 2 gm LiOH + 3 gms
Zinc Hydroxide
wt 5.000
4728 " 5.000

	50 1/4	1/2	150		200 1/2	1/2	250	
4731	1740	2235	1465	1945	1275	1760	1320	1370
4732	1745	2640	1360	1800	1050	1290	1135	1170
4733	1880	2650	1120	1485	615	740	985	1210
4734	1775	2650	1235	1830	1225	1490	1300	1730
4735	1800	2770	1170	1765	850	1310	1115	1460
4736	1865	2800	1250	1740	1095	1490	1090	1380
4737	1720	2610	1300	1865	1160	1600	1180	1585
4738	1720	2695	1270	1740	775	1060	990	1260
4739	1865	2535	1460	2000	1165	1580	1350	1830
4740	1835	2770	1370	1970	1090	1475	1115	1490
4741	1725	2640	1300	1790	1060	1335	1200	1600
4742	1600	2390	1280	1685	1050	1325	1090	1260

4729 Dup of 4692 Nov. 23, 10.
Draw Mix 1491
21% KOH + 2 gm LiOH after forming change solution to 18% KOH + 3 gm NaOH + 2 gm LiOH.
lot 5.000
4730 " 5.000
All the irons in this series are to be run regular, then run in ice chest. Series from 4715 to 4730 Inc.

4731 Draw Mix 1491 Dec. 2, 10
Form up by current with nickel strips in 27% KOH after forming change cell & put up with y tube in 21% KOH + 2 gm LiOH
lot 5.000
4732 " 5.000

4733 Dup of 4731 Except Dec. 2, 10,
30% KOH for forming with in strips.
lot 5.000
4734 " 5.000

4735 Dup of 4731 Except Dec. 2, 10.
33% KOH for forming.
lot 5.000
4736 " 5.000

4737	Duplicate of 4731 Except 20% NaOH for forming.	Dec. 2/10.
	wt 5.000	
4738	" 5.000	
4739	Duplicate of 4731 Except 25% NaOH for forming.	Dec. 2/10.
	wt 5.000	
4740	" 5.000	
4741	Duplicate of 4731 Except Saturated Li OH for forming.	Dec. 3/10.
	wt 5.000	
4742	5.000	
4743	Duplicate of 4695	Dec. 3/10.
	wt 5.000	
4744	" 5.000	
4745	Duplicate of 4697	Dec. 3/10.
	wt 5.000	
4746	5.000	
4747	Duplicate of 4699	Dec. 3/10.
	wt 5.000	
4748	" 5.000	

4749	Dup of 4701. wt 5.000	Dec. 3, 10.
4750	" 5.000	
4751	Dup of 4703. wt 5.000	Dec. 3, 10.
4752	5.000	
4753	Dup of 4705 wt 5.000	Dec. 3, 10.
4754	" 5.000	
4755	Dup of 4707 wt 5.000	Dec. 3, 10.
4756	"	
4757	Dup of 4709 wt 5.000	Dec. 3, 10.
4758	" 5.000	
4759	Dup of 4711 wt 5.000	Dec. 3, 10
4760	" 5.000	
4761	Dup of 4713 wt 5.000	Dec. 3, 10.
4762	5.000	

4763	Hlup of 4715	Hlee. 3, 10.
	wt 5,000	
4764	" 5,000	
4765	Hlup of 4717	Hlee. 3, 10.
	wt 5,000	
4766	" 5,000	
4767	Hlup of 4719	Hlee. 7, 10.
	wt 5,000	
4768	" 5,000	
4769	Hlup of 4721	Hlee. 7, 10.
	wt 5,000	
4770	" 5,000	
4771	Hlup of 4723	Hlee. 7, 10.
	wt 5,000	
4772	" 5,000	
4773	Hlup of 4725	Hlee. 7, 10.
	wt 5,000	
4774	" 5,000	
4775	Hlup of 4727	Hlee. 7, 10.
	wt 5,000	
4776	5,000	

4777 Dup of 4729 Dec. 7, 10
wt 5.000
4778 " 5.000

4779 - 4780 - 4781 April 5, 11
Regular iron pockets machine loaded & ground which have been plated & annealed but burrs not ground off. Run with 4 tubes
Iron mix # 1647
average wt 8.192
21% KOH + 2 gm LiOH Run regular bot test

4782 - 4783 - 4784 April 5, 11
Regular iron pockets machine loaded & ground not nickel plate & but annealed. Run with four tubes
Iron mix # 1647
average wt of active material = 8.192
21% KOH + 2 gm LiOH Run regular bot test

4785 Iron pockets not plated but annealed. Run with 4 tubes April 5, 11
21% KOH + 2 gm LiOH Run regular bot test
wt 5.000
4786 " 5.000 Iron mix # 1516
4787 " 5.000

4788 Greenly Iron #55 Apr. 5, 11.

wt 5.000

21% KOH + 2 gm LiOH Run regular

4789 Greenly Iron #56 Apr. 5, 11.

Pressed into a cake.

wt 5.000

21% KOH + 2 gm LiOH Run regular

4790 Greenly Iron #58 Apr. 5, 11

wt 5.000

21% KOH + 2 gm LiOH Run regular

4791 Greenly Iron #59 Apr. 5, 11

wt 5.000

21% KOH + 2 gm LiOH Run regular

4792 Greenly Iron #61 April 5, 11.

wt 5.000

21% KOH + 2 gm LiOH Run regular

	50			150
1635 – 2585	1	½	1100	
	1790	2790	1525	1360

	250	½	1	3000
4792	1155	1470	1210	580 1100

885

Ng

315

Ng

4793 Greenly Iron #64 April 12, 11

wt 5.000

21% KOH + 2 gm LiOH Run regular hot test

4794 Greenly Iron #76 April 12, 11.

wt 5.000

21% KOH + 2 gm LiOH Run regular hot test

4795 Hydrated Magnetic Iron Apr 12, 11.

wt 5.000

21% KOH + 2 gm LiOH Run reg

dehydrated in hydrogen current at 380°F

4796 Goldstein's magnetic Iron Apr 12, 11.

Fe_3O_4

wt 5.000

Hydrated in current of hydrogen at 250-260° F

21% KOH + 2 gm LiOH Run reg

4797 Goldstein magnetic Iron Apr 17/11
Fe_3O_4 $4H_2O$
wt 5.000
21% KOH + 2 gm LiOH Run regular

4798 Goldstein Hydrated magnetic Iron Apr 17 11.
dehydrated in a hydrogen current
at 260°F
wt 5.000
21% KOH + 2 gm LiOH Run regular.

4799 Reg iron mix 1754 June 17, 11.
For Mr. Hutchinson
Average wt 5.109
4800
4801
21% KOH + 2 gm LiOH Run regular

4802 Reg iron mix #1779 June 24, 11.
For Mr. Hutchinson
wt 5.780
4803 " 5.380
4804 " 5.480
21% KOH + 2 gm LiOH Run regular

4805

		1V	1/2	100	
16 Cold press	300	1180	1820	5	10
		1460	2285	475	950

5 | 1850 / 370

4 | 1460 / 365

		1V	1/2	100	1/2
Cold 5 hrs		1220	1365	1070	1565
		1235	1350	1075	1570

4807 | 152 865 - 1370 / 945 - 1390 | Co

5 cold	1V	5V
4809	135	155
4810	160	225

C.O.

4805 July 14, 1911.

Made on rolls from dry materials.
Run with 2 tubes each
21% KOH + 2 gm LiOH Run regular
Picked H by RA - finest yet - Cheap $

wt 5.000
4806 " 5.000

4807 July 25, 1911.

Made from Dry Sulphate in rolls reduced by hydrogen. This lot has mercury in it.
Run against two tubes
21% KOH + 2 gm LiOH Run regular

wt 4.000
4808 " 4.000

Note only 4 grammes

4809 Grainly Iron #75 Aug 10, 11.

wt 5.000
4810 " 5.000

run with 2 tubes
21% KOH + 2 gm LiOH Run regular

5 cold	1 V	5 V	
4811	145	160	C.O.
4812	180	235	

5 cold	1 V	½ V.	
4813	180	195	
4814	180	195	

4811 Greenly Iron #76 Aug 10, 11.

wt 5.000

4812 " 5.000

21% KOH + 2 gm LiOH Run regular
Run with tube

Run with tube

4813 Greenly Iron #77 Aug 15, 11.

wt 5.000

4814 " 5.000

21% KOH + 2 gm LiOH Run regular

4815 Greenly Iron #78 Aug 15, 11.

wt 5.000

4816 " 5.000

21% KOH + 2 gm LiOH Run regular

Run with 2 tubes

5th cold run		10th cold run		
I.V.	.5V.	I.V.	.5V.	
45	70	40	50	4817
270	425	265	350	4818
490	775	550	900	4819
775	1200	825	1250	4820
875	1405	985	1565	4821
700	1120	820	1300	4822
850	1340	985	1560	4823
800	1280	920	1430	4824

4817 Greenly Iron #79 Aug 21, 11.

wt 5,000

4818 " "

21% KOH + 2 gm LiOH. Run regular

run with 2 tubes

Run with 2 tubes

4819 Greenly Iron #80 Aug 21, 11.

wt 5,000

4820 " 5,000

21% KOH + 2 gm LiOH Run regular

Run with 2 tubes

4821 Greenly Iron #81 Aug 21, 11.

wt 5,000

4822 " 5,000

21% KOH + 2 gm LiOH Run regular

Run with 2 tubes

4823 Greenly Iron #82 Aug 21, 11.

wt 5,000

4824 " 5,000

21% KOH + 2 gm LiOH Run regular

5th cold run		10th cold run		
I.V.	I.V.	I.V.	I.V.	
740	1155	840	1340	4825
885	1680	990	1550	4826
840	1280	925	1435	4827
950	1490	1065	1640	4828
860	1360	1020	1595	4829
865	1360	1025	1565	4830
9.00	1610	1050	1625	4831
910	1675	1085	1660	4832

4825 Greenly Iron #83 Aug 21, 11.

wt 5.000

4826 " 5.000

21% KOH, 2 gm LiOH Run regular

Run with 2 tubes

4827 Greenly Iron #84 Aug 21, 11.

Run with 2 tubes

wt 5.000

4828 " 5.000

21% KOH, 2 gm LiOH Run regular.

Run against 2 tubes

4829A Greenly Iron #85 Aug 2 11.

wt 5.000

4830A " 5.000

21% KOH, 2 gm LiOH Run regular

4831A Greenly Iron #86 Aug 2 11.

21% KOH, 2 gm LiOH Run regular

wt 5.000

4832 " 5.000

Run against 2 tubes

5th cold run		10th cold run		
I.V.	.5V.	I.V.	.5V.	
900	1140	1060	1600	4833
730	1120	850	1295	4834
780	1230	900	1395	4835
775	1235	850	1300	4836
85	110	110	170	4837
90	110	110	165	4838
95	115	120	180	4839
90	110	110	180	4840

4833 Greenly Iron #87 Aug 29, 11. Run with stirrer

wt 5.000
4834 " 5.000
21% KOH + 2 gm LiOH Run regular

4835 Greenly Iron #88 Aug 29 11. Run against stirrer

wt 5.000
4836 " 5.000
21% KOH + 2 gm LiOH Run regular

4837 Greenly Iron #89 Aug 29 11. Run against stirrer

wt 5.000
4838 " 5.000
21% KOH + 2 gm LiOH Run regular

4839 Greenly Iron #90 Aug 29 11. Run against stirrer

wt 5.000
4840 " 5.000
21% KOH + 2 gm LiOH Run regular

5th cold run I.V.	5th cold run .5V.	10th cold run I.V.	10th cold run .5V.	
900	1450	1060	1645	4841
870	1390	1000	1555	4842
855	1355	985	1595	4843
775	1220	865	1345	4844
700	1390	900	1590	4845
740	1445	920	1660	4846
700	1360	890	1625	4847
735	1175	845	1275	4848
4947	1575 - 2240			
4948	1665 2490			

4841 Greenly Iron #91 Aug 29, 11.
Run against 2 tubes

wt 5.000
4842 " 5.000
21% KOH + 2 gm LiOH Run regular

4843 Greenly Iron #92 Aug 29, 11.
Run against 2 tubes

wt 5.000
4844 " 5.000
21% KOH + 2 gm LiOH Run regular

4845 Greenly Iron #93 Aug 29, 11.
Run against 2 tubes

wt 5.000
4846 " 5.000
21% KOH + 2 gm LiOH Run regular

4847 Greenly Iron #94 Aug 29, 11.
Run against 2 tubes

wt 5.000
4848 " 5.000
21% KOH + 2 gm LiOH Run regular

5th cold run I.V.		½ V	10th cold run I.V.	½ V	
735		1400	890	1590	4849
925		1645	1025	1580	4850
725		1280	900	1490	4851
775		1370	960	1650	4852
1270		2090	1430	2320	4853
1365		2295	1540	2390	4854
4853	100 1480	½ 2435	150 1370	2780	
54	1586	2725	1395	2300	
1300		2135	1450	2260	4855
1365		2290	1520	2330	4856
4855	100 1450	½ 2460	150 1400	2375	
56	1575	2448	1300	2270	

4849 Greenly Iron #95 Aug 29, 11.
Run against tubes
wt 5,000
4850 " 5,000
21% KOH + 2 gm LiOH Run regular

4851 Greenly Iron #96 Aug 29, 11.
wt 5,000
4852 " 5,000
21% KOH + 2 gm LiOH Run regular
Run against tubes

4853 Greenly Iron #97 Sept 6, 1911.
Run against tubes
wt 5,000
4854 " 5,000
21% KOH + 2 gm LiOH Run regular

4855 Greenly Iron #98 Sept 6, 1911.
Run against tubes
wt 5,000
4856 " 5,000
21% KOH + 2 gm LiOH Run regular

5th cold run				10th cold run				
I.V.		.5V.		I.V.		.5V.		
1360		2285		1515		2395		4857
1280		2065		1460		2335		4858
4859	100	1570	1/2	2465	1/2	1970	2190	10
54	1500		2430		1970		2370	
1360		2285		1520		2380		4859
1300		2165		1475		2365		4860
4859	100	1585	1/2	2460	1/2	1985	2300	10
60	1500		2400		1945		2275	

4857 Greenly Iron #49 Sept 6, 1911.
Run against a tube
Pressed with Mr Arbogast dies.
wt 5,000
4858 " 5,000
21% KOH + 2 gm LiOH Run regular

4859 Greenly Iron #100 Sept 6, 1911
Run against a tube
wt 5,000
4860 " 5,000
21% KOH + 2 gm LiOH Run regular

4861 General Iron mix #1799 Sept 26, 11.
Run against 4 tubes
Pressed, Mr Arbogast dies - 97A + 108A
wt 5,000
4862 " 5,000
21% KOH + 2 gm LiOH Run regular

4863 Reg Iron mix #1830 Sept 20, 11.
Run against 4 tubes
Pressed mr Arbogast dies 97A & 108A
wt 5,000
4864 " 5,000
21% KOH + 2 gm LiOH Run regular

4865 Reg Iron min #1831 Sept 26, 11.
Run against 4 tubes
Pressed, in Autogest dies 97 A & 108
wt 5.000
4866 " 5.000
21% KOH + 2 gm LiOH Run regular

4867 Reg Iron min #1835 Sept 26, 11.
Run against 4 tubes
Pressed, in Autogest dies. 97 A &
wt 5.000
4868 " 5.000
21% KOH + 2 gm LiOH Run regular

4869 Reg Iron min #1849 Sept 26, 11.
Run against 4 tubes
Pressed in Autogest dies 97 A & 108 A
wt 5.000
4870 " 5.000
21% KOH + 2 gm LiOH Run regular

4871 Reg Iron min #1858 Sept 26, 11.
Pressed in Autogest 97 A & 108 A Run against 4 tubes
wt 5.000
4872 " 5.000
21% KOH + 2 gm LiOH Run regular

4873 Dup of 4871 Sept 26, 11.
Run against tube

wt 5.000
4874 " 5.000
Pressed at 100A. & 150A in our pump with Mr Arbogast dies.
21% KOH + 2 gm LiOH Run regular

4875 Dup of 4871 Sept 26, 11.
Run against tube

wt 5.000
4876 " 5.000
21% KOH + 2 gm LiOH Run regular

Pressed at 97A & 108A in our pump and our dies.

4877 Dup of 4871 Sept 26, 11.
21% KOH + 2 gm LiOH Run against tube

wt 5.000
4878 " 5.000

Pressed at 100A & 150A in our pump and our dies.
21% KOH + 2 gm LiOH Run regular

	1st Run (cold)	4th Run (cold)	
4879	1185	95 - 150	
80	1090	870 . 1030	
4881 -	1150	0 - 12	6
82	1060	5 - 10	1
4883	935	35 45	
84	880	30 40	

Fleming Co

4879 Goldstein, Iron #820 Oct 1911.

6% Hg_0

Run regular
Callipers
100 top 99
wt 5,000
4880 " 5,000 108 middle 105
116 bottom 105

4881 Goldstein Iron #821 Oct, 1911.

6% Hg_0

Run regular
Callipers
wt 5,000 82 top 79
4882 " 5,000 90 middle 90
96 bottom 96

4883 Goldstein #822 Iron Oct, 1911
6% Hg_0

Run regular
Callipers
wt 5,000 110 - top - 110
4884 " 5 000 97 - middle - 100
90 - bottom - 91

IV
395 675
465 775 ‖ 10

4885 goldstein Electrolytical Iron #1 Oct 18, 11.
+ 60% Hg0.

21% KOH + 2 gm LiOH Run regular

		Callipers
	wt 5.000	90 – 95
4886	" 5.000	100 middle 100
		105 – 110

4887 Electrolytical Iron #1 goldstein Oct 18, 11:
without Hg0

21% KOH + 2 gm LiOH Run regular

		Callipers
	wt 5.000	107 – 100
4888	" 5.000	100 middle 110
		105 – 115

4889 Eletrolytical Iron #1 goldstein Oct 30, 11.
60% Hg0

21% KOH + 2 gm LiOH Run regular

	wt 5.000
4890	" 5.000

IV	1/2	
210	260	Co
215	265	

IV	1/2	
30	40	Co
15	20	

IV	1/2	
595	800	Co
760	1350	

4891 Electrolytical Iron #2 Goldstein Oct 30/11.
Washed with alcohol and dried in the air.

21% KOH + 2 gm LiOH Runs regular

wt 5.000

4892 " 5.000

4893 Electrolytical Iron #4 Goldstein Oct 30/11.
Left for 5 days in 15% KOH solution
dried in the air.

21% KOH + 2 gm LiOH Runs regular

wt 5.000

4894 " 5.000

4895 Fe = 852 Goldstein Oct 30/11.
21% KOH + 2 gm LiOH Runs regular

wt 5.000

4896 " 5.000

IV	1/2	
825	1555	Co
585	1675	

Cal. –	IV		4899 / 4900	55
4899	1640	2500		1/2
4900	1700	2590	1795 – 2685	
4901	1550	2240	1840 – 2800	
4902	1660 –	2490	1700 2465	
			1880 2795	

100

1200	1490

4899 1640
4900 1740
901 1560

1140	1650	Co
1090	1575	

4897 Goldsteins 251 Iron 30, 11.
Run regular

wt 5.000
4898 " 5.000

4899 RA Spec # 1486 Iron Nov. 6, 11
Run regular
Mass Iron 6% Ago

wt 5.000
4900 " 5.000
4901 " 5.000
4902 " 5.000

4903 Ra Sp Spec #1493 Nov 8, 11.
21% KOH . 2 gm LiOH Run regular

wt 5.000
4904 " 5.000

4905 Ra7e #1494 Nov. 10, 11.

Iron reduced by hydrogen cooled by nitrogen passed.

wt 5,000

4906 " 5,000

Run regular

4907 Goldstein #8537e Nov. 13, 11.

21% KOH + 2 gm LiOH Run regular

wt 5,000

4908 " 5,000

4909 Goldstein #854 Nov. 13, 11.

Iron made by rollers reduced & Selfheated

21% KOH + 2 gm LiOH Run regular

wt 5,000

4910 " 5,000

	50	12	100	
4911 —	3000	4425	2900	2370

1 V 1/2

560	675	RA says Sulphide — ✓ ug
550	583	

1 V

900	1615	ug
215	245	

T.R. #1852

4911 1/8 tube loaded with Iron Nov 13, 11.
[illegible] Run regular
Average wt of each tube - 4.308
17.232

4912 Electrolytical Iron Nov. 16, 11.
boiled with KOH ammonia sulphate
[illegible] Run regular

wt 5.000
4913 " 5.000 Goldstein

4914 Goldstein #8557 Fe Nov 18, 11.
6 o/o Ago Iron made by Zollers,
reduced in hydrogen Delphected
21% KOH + 2 gm LiOH Run regular

wt 5.000
4915 " 5.000

4916 Goldstein #8567 Fe Nov 18, 11.
Reduced by H replaced by N.
wt 5.000 6 o/o Ago
4917 wt 5.000
21% KOH + 2 gm LiOH Run regular

Nothing —

4920 21	175 165			Co

	1 V	1/24		
4922 23	2000 1955	2875 2890		

4918 Goldstein Electrolytical Chem Nov 18, 11.
Fuel from alkaline dried on the fench 60% H_2O
21% KOH + 2 gm LiOH Run regular
Pressed into 5 gram cake
wt 5,000
4919 wt 5,000

4920 Goldstein Electrolytical Chem. Nov 24, 11
Containing 60% H_2O and small amt of KOH dried in the vacuum
21% KOH + 2 gm LiOH Run regular
wt 5,000
4921 " 5,000

4922 Ra 7e Cp# 1506 Nov. 24, 11.
Iron mix 60% H_2O Iron cooled in H
H replaced by N P_{O_2} 3 put through 180 mesh.
Run regular
wt 5,000
4923 " 5,000

			50		150	1/2
4924	1725	2615	1880	2840	1740	2560
25	1980	2915	1970	2880	1790	2490

	200	
4925	1890	1885

4926	1260	1985	950	1360	
27	1395	1975	1200	1540	

4928	1515	2190	1400	1925	
29	1560	2220	1360	1930	

4930	1625	2250	1400	1955	
31	1560	2200	1345	1900	

4924 RA 7le Expm #1507. Nov. 24 11.
Iron cooled in hydrogen H replaced by nitrogen
Run regular

wt 5.000
4925 " 5.000

4926 RA 7le Expm #1510 Nov. 24 11.
1.35 % Hgo Through 30 on 40 mesh
Run regular

wt 5.000
4927 " 5.000

4928 RA 7le Expm #1511 Nov. 24 11.
40 on 50 mesh 1.58 % Hgo
Run regular

wt 5.000
4929 " 5.000

4930 RA 7le Expm #1512 Nov. 24 12
Run regular
wt 5.000 50 on 60 mesh
4931 " 5.000 2.18 Hgo

4932	1630	2330	50	1530	2265	150	1425	2040	
33	1600	2260		1615	2344		1560	2183	
4934	1570	2250		1280	1800	150	1110	~~1445~~	
35	1580	2150		1310	1770		885	1075	
4936	1730	2450	50						
37	1690	2460							
4938	1990	3010		1860	2640	150	1640	2480	
39	1880	2770		1900	2100		1560	2185	
4940	1760	2575		1770	2520	150	1480	2230	
41	1750	2665		1640	2600		1530	2300	

Note this

4932 RA 7e Effen # 1513 Nov 24, 11.
60 on 70 mesh 2.91 Hgo
Run regular

wt 5,000

4933 wt 5,000

4934 RA 7e Effen # 1514 Nov 24 11.
70 on 80 mesh 1.69 o/o Hgo
Run regular

wt 5,000

4935 wt 5,000

4936 RA 7e #1515 Effen Nov. 24, 11.
80 on 100 mesh 3.02 o/o Hgo
Run regular

wt 5,000

4937 " 5,000

4938 RA 7e Effen #1516 Nov. 24, 11.
100 on 180 mesh 3.48 Hgo
Run regular

wt 5,000

4939 " 5,000

4940 RA 7e Effen #1517 Nov 25, 11.
through 180 mesh 7.45 o/o Hgo
Run regular

wt 5,000 4941 wt 5,000

4942 43 | 1v 1720 | [illegible] |

4944 | | |

4945 46 | | 50 1300 1360 | 1/2 1730 2040 | 10

4947 48 | 1v 1475 1475 | 1/2 2060 2180 | 50 1385 1480 | 2025 2150

4942 Goldstein #820 Iron Dec 2, 11.
Reduced in H replaced by N full sulphates
21% KOH + 2 gm LiOH Run regular

wt 5.000
4943 " 5.000

4944 Goldstein #821 Dec 2, 11.
Reduced in H replaced by nitrogen full sulphates
21% KOH + 2 gm LiOH Run regular
wt 5.000

4945 Goldstein iron #786 Dec 2, 11
Reduced in H replaced by nitrogen
21% KOH + 2 gm LiOH Run regular
wt 5.000
4946 " 5.000
Slight trace sulphates

4947 Dup of 4922+23 Dec 19, 11.
21% KOH + 2 gm LiOH Run regular
calipers
wt 5.000 tip 95 93
4948 " 5.000 middle 90 92
bottom 75 80

50

4949	1160	1790	1475	2260
50	1075	1690	1275	2060

50

4951	1230	1830	1470	2260
52	1120	1690	1190	2165

4949 Pa Fe Exper #1527 Dec 13, 11.
Iron reduced & cooled in hydrogen. It replaced by air passed thru capillary .05 in diam mixed with 60% H_2O air passed for 2 hrs. S.W. 24.05
21% KOH + 2 gm LiOH Run regular

wt 5.000 calipers
4950 " 5.000 top 91 - 89
middle 81½ - 85
bottom 76 - 75

4951 Pa Fe Exper #1536 Dec 13, 11.
Reg Fe O_3 passed through 30 mesh reduced and cooled in hydrogen, replaced air passed thru capillary tube .05 in diam for 2 hrs. 60% H_2O S.W. 23.1 g
21% KOH + 2 gm LiOH Run regular

wt 5.000 calipers.
4952 " 5.000 top 91 - 89
middle 84 - 82
bottom 76 - 72

50 1/2

4953	1520	2265	1255	1740	
54	1725	2430	1535	2200	
4955	1600	2220	1540	2165	
56	1695	2465	1495	2250	
4957	1695	2440	1420	2570	
58	1630	2370	1630	2460	

4953 RA 7e Exper #1538 Dec 19, 11.
No Hg°
21% KOH + 2 gm LiOH Run regular
top 93 - 92
wt 5,000 middle 82 - 90
4954 " 5,000 bottom 74 - 90
pressed into cake

4955 RA 7e Exper #1538 Dec 19, 11.
20% Hg°
21% KOH + 2 gm LiOH Run regular
Pressed into cake
wt 5,000 top 82 - 97
4956 " 5,000 middle 90 - 88
bottom 90 - 88

4957 RA 7e Exper #1538 Dec 19, 11.
40% Hg°
21% KOH + 2 gm LiOH Run regular
top 92 - 99
wt 5,000 middle 88 - 87
4958 " 5,000 bottom 82 - 78
Pressed into cake

			50	1/2
4959	1650	2400	1790	2665
60	1560	2280	1665	2480
4961	1550	2260	1575	2365
62	1540	2245	1595	2255
4963	1765	2585	1740	2590
64	1635	2470	1765	2630
4965	1715	2595	1700	2690
66	1775	2600	1795	2710

4959 RA 7e Cafen #1538 Dec 19, 11.
60% H2O
21% KOH + 2 gm LiOH Run regular
top 88 - 86
wt 5,000 middle 86 - 86
4960 " 5,000 bottom 82 - 84
pressed into cake

4961 RA 7e Cafen #1538 Dec 19, 11.
80% H2O
21% KOH + 2 gm LiOH Run regular
top 86 - 88
wt 5,000 middle 85 - 91
4962 " 5,000 bottom 77 - 80
pressed into cake

4963 RA 7e Cafen #1538 Dec 19, 11.
100% H2O
21% KOH + 2 gm LiOH Run regular
top 93 - 88
wt 5,000 middle 91 - 88
4964 " 5,000 bottom 82 - 81

4965 RA 7e Cafen #1538 Dec 19, 11.
120% H2O top 98 - 88
21% KOH + 2 gm LiOH Run regular middle 88 - 87
wt 5,000 bottom 82 - 87
4966 " 5,000

			50	12
4967	1635	2485	1800	2640
68	1560	2290	1730	2565
4969	1695	2480	1775	2690
70	1555	2300	1525	2360
4971	765	1195		
72	670	1010		
4973	450	540		
74	480	570		

4967 RA The Expm #1538 Dec 19, 11.
14 o/o Hg o
21% KOH + 2 gm LiOH Run regular
wt 5.000 top 77 - 87 (calfpins)
4968 " 5.000 middle 90 - 83
bottom 100 - 85

4969 RA The Expm #1539 Dec 19, 11.
16 o/o Hg o
21% KOH + 2 gm LiOH Run regular
wt 5.000 top 92 - 81 (calfpins)
4970 " 5.000 middle 87 - 83
bottom 81 - 74

4971 Electrolytical Iron Dec 19, 11.
Made like sample from 11/14/11
Reduced and cooled in H 6 o/o Hg o
21% KOH + 2 gm LiOH Run regular
wt 5.000 top 72 - 77 (calfpins)
4972 " 5.000 middle 77 - 77
bottom 86 - 84
This batch contain sulphates

4973 Electrolytical Iron #4 Dec 19, 11.
Boiled with strong KOH solution
21% KOH + 2 gm LiOH Run regular
6 o/o Hg o
wt 5.000 top 81 - 99 (calfpins)
4974 " 5.000 middle 83 - 100
bottom 80 - 114

4975 770 1040
76 755 1050

	1st end	1/2 h	1	1/2	1 h	1/2
4977	1360	2050	1450	2190		
4978	1475	2050	1630	2300		
4979	2060	2975	1700	2510	1690	2320
4980	1885	2745	1670	2575	1690	2545
4981	1950	2960	1870	2650	1800	2625
4982	2025	3075	1800	2490	1800	2585

4975 Electolytic Iron #7 Dec 19, 11.
precipitated in presence of
hydroxylaminechloride
21% KOH + 2 gm LiOH Runnegular
wt 5.000 top - 107 - 112
4976 " 5.000 middle - 107 - 112
bottom - 98 - 105
6% H_2O

4977 RA Fe Exper #1539 Jan 5, 11.
6% H_2O
21% KOH + 2 gm LiOH Runnegular
top 88 - 91
wt 5.000 middle 81 - 91
4978 " 5.000 bottom 75 - 87

4979 RA Fe Exper #1541 Jan 5, 11.
All fines through 20 mesh 6% H_2O
21% KOH + 2 gm LiOH Runnegular
top 87 - 91
wt 5.000 middle 96 - 91
4980 " 5.000 bottom 85 - 89

4981 RA Fe Exper #1542 Jan 5, 11.
All fines through 20 mesh 6% H_2O
21% KOH + 2 gm LiOH Runnegular
wt 5.000 top 93 - 98 - 92
4982 " 5.000 middle 85 - 85 - 81
bottom

	1" cals	1/2	100			130	1/2
4983	2190	2275	1855	2690	2485	1945	2730
4984	1970	2710	1700	2485		1470	2270
4985	2075	3125	1865	2685		1875	2500
4986	2025	2910	1830	2600		1765	2510
4987	2175	3250	1740	2685		1745	2620
4988	2140	3200	1740	2530		1675	2525
4989	2140	3150	1880	2810		1890	2755
4990	2100	3225	1800	2530		1755	2530

Decreased pressure

4983 RQ7e Exper #1543 Jan 5, 11.
all fines thru 40 mesh 6% Hg°
21% KOH + 2 gm LiOH Run regular calipers
wt 5,000 top 97 - 84
4984 " 5,000 middle 94 - 93
bottom 91 - 87

4985 RQ7e Exper #1544 Jan 5, 11.
all fines thru 60 mesh 6% Hg°
21% KOH + 2 gm LiOH Run regular calipers
wt 5,000 top 89 - 82
4986 " 5,000 middle 90 - 98
bottom 90 - 96

4987 RQ7e Exper #1545 Jan 5, 11.
all fines thru 80 mesh 6% Hg°
21% KOH + 2 gm LiOH Run regular calipers
wt 5,000 top 97 - 92
4988 " 5,000 middle 97 - 97
bottom 87 - 92

4989 RQ7e Exper #1546 Jan 5, 11.
all fines thru 100 mesh 6% Hg°
21% KOH + 2 gm LiOH Run regular calipers
wt 5,000 top 85 - 87
4990 " 5,000 middle 97 - 99
bottom 91 - 88

	1" Cards	1/2	1.00		1.50	1/2
4991	2175	3260	1700	2340	1460	2095
4992	1920	2875	1690	2200	1285	1885

Note

	75 Tube	75 Tube	Cly 75 dia 35 Tube 1V
8	1890	2765	575
9	1820	2660	1240
11	1900	2625	1300
13	1790	2710	1150
14	2360	3275	1625
17	2290	3375	800
19	1925	2790	1375
20	2080	3015	1470
21	1875	2750	1200
24	1750	2560	1350
25	2100	3140	1690
29	1875	2450	1420

Copy

4991. RQ Fe Caper # 1547
all fines thru 180 mesh 60% Hg 5
21% [redacted] Run regular
wt 5,000 tip 93 - 89 (collector)
4992 " 5,000 middle 100 - 96
bottom 94 - 89

Iron Experiment Dec 28, 11.
RQ Fe 1538 (new iron) -

8	wt of tailings	2½ lb. dumps	23	wt.	6.91
9	" " "	2½ " "	22	"	6.91
11	" " "	2.91 " "	23	"	7.26
13	" " "	2.91 "	22	"	7.11
14	" " "	3.91 "	25	"	7.66
17	" " "	4.05 "	17	"	7.27
19	" " "	4.05 "	23	"	7.77
20	" " "	4.88 "	17	"	7.63
21	" " "	4.88 "	14	"	7.21
24	" " "	4.88 "	14	"	7.35
25	" " "	4.88 "	14	"	7.5
29	" " "	4.88 "	15	"	8.11

[redacted] Run regular

4993 Caper

	1 week	1/2	35 day		
4993	2065	2815			
4994	2175	3025			
40	1630	2580	1085	1100	
41	1755	2770	1155	1200	
42	1705	2580	570	575	
43	1690	2495	650	700	
44	1975	2735	900	810	
45	1880	2785	540	490	
46	2020	3016	1150	1160	
47	2050	3040	460	450	
49	1935	2875	440	515	

Nitrogen

Co

Co

4993 Rg Fe Cipin #1551 Jan 12.
Fe_2O_3 thru 100 mesh reduced at 800° p
cooled in H then the H replaced by N.
6% H_2O
This did not go to metal
Run regular
Then run ice cold test on board.
wt 5.000 Calipers
4994 " 5.000 top 112 — 112
middle 108 — 107
bottom 102 — 100

Iron experiment Jan 4, 1912
R.H. Fe 1538 6% H_2O

Weight of lamp 8#
Fall of lamp 4 3/4"

No of Pocket	No of Dumps	Size of Screen	wt. of Iron
45	20	80	6.290
46	22	"	6.285
47	21	50	6.430
49	21	"	6.175
42	20	120	5.490
43	21	"	5.745
44	21	"	6.170
40	22	180	7.195
41	21	"	7.420

(over)

			35 deg			
50			685	760		
51	1680	2510	675	700		

Run Regular and then see cold test on board.
21% KOH + 2 gm LiOH

Iron Experiment Jan. 5, '12
R.A. Fe 1538 6% HgO

50 See Iron Book
Weight 6.8 grams.
This pocket made with screen cut from tube stock imbedded in iron.
Run regular and then see cold test on board
21% KOH + 2 gm LiOH

See Iron Book
Iron Experiment Jan. 9, '12
R.A. Fe 1538 6% HgO

51 Weight about 7.2 grams
This pocket made with 4 small nickel wires, imbedded lengthwise in iron and making contact with pocket.
Run regular and then in cold test on board
21% KOH + 2 gm LiOH

Top .180
Mid .113
Bot .106

35 deg

52	2880	4225	1930	1880	100 mesh
53	2970	3970			

35 deg

54	2630	3990	1780	1680	
55	2600	3970	1360	1300	

52. Iron Experiment R.H. 1500
53 Fe_2O_3 screened thru 100 mesh, reduced by H. cooled in H replaced by N.
Mixed with 10% HgO (New Iron)
This Iron feeds with difficulty i.e. it clogs the machine.

		Top.	Mid.	Bot.
52	= 8.38 grams	.146	.139	.135
53	= 8.67 "	.145	.137	.130

Run regular then ice cold test on board.
21% KOH + 2 gm LiOH

New Iron — Duplicate
Iron Experiment R.H. 1500
55 Fe_2O_3 thru 100 mesh, reduced
54 and cooled in H. H replaced by N for 2 hours. 10% HgO 900°
This Iron clogs easily.

		Top.	Mid.	Bot.
55	= 8.10 gr	.123	.120	.117
54	= 8.82 "	.110	.107	.104

Run regular then ice cold test on board
21% KOH + 2 gm LiOH

35

56	2275	3350	160	280	
57	1590	2549	80	90	

Temperature of reduction too low

35 day

58	1380	2130	935	970	
59	1320	2080	895	950	

Temp reduction better higher than before

56 Iron Experiment 1551 R.F. Iron
57 Fe_2O_3 thru 100 mesh reduced at 800° Cooled in H then H replaced by N.
10% H_2O
This did not go to metal

Top Mid Bot
56 = 7.88 gm. .137 .133 .120
57 = 8.08 gm .142 .137 .127

Run regular thru ice cold test on Board
21% KOH + 2 gm LiOH

58 Iron Experiment 1552 P.A.
59 Fe_2O_3 screened thru 100 mesh. Reduced at 1000° cooled in H. H then replaced by N. 10% H_2O.

Top Mid Bot
58 = 14 temps 7.75 gm. .118 .110 .103
59 = 16 " 7.78 gm. .103 .104 .101

8# temp

Run regular thru ice cold test on Board
21% KOH + 2 gm LiOH

35 deg

60. 1810 2660 | 500 | 410 | [illegible]

35 deg

61- 3125 4250 | 385 | 200 | [illegible]

35 deg

62 2860 4285 | 60 | 75 | [illegible]

35 deg

63 2300 3040 | 1050 | [illegible]
64 1955 2925 | 1155 |

60 See New book Iron Experiment Ra. 1558 6% MgO
15 dumps, each dump followed by a dump of nickel flake.
Run Regular, then ice cold test on board
21% KOH + 2 gm LiOH

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61. See New book Fe Experiment Ra. 1558 6% MgO
Iron Loaded in 1/8" tubes fine perforations
4 tubes 2 gr. per tube.
48 tamps 14 oz tamp
Run Regular then ice cold test on board 21% KOH + 2 gm LiOH.

---

62 See New book Fe Exp. 1558 Ra. 6% MgO
Iron Loaded in 1/8" tubes fine perforations 46 dumps with flake 1.92 grams per tube
Run Regular then ice cold test on board 21% KOH + 2 gm LiOH

---

63 Fe Exp. 1558 Ra. 10% MgO New Iron
64 Fe_2O_3 then 80 mesh at 800° F
Cooled in H. H replaced by N.

			Top	Mid.	Bot.
64 tamp	63 - 17 tamps	6.60 gr	.110	.109	.098
	64 - 16 "	6.66 "	.110	.109	.098

Run Regular then ice cold test on board. 21% KOH + 2 gm LiOH

35

4995	7.0	1220	~~685~~
96	630	1125	

35

65	1470	2090	685
66	1670	2355	840

4995 Goldschmidt* 887 Iron Jan 2/12
Made by the roller method free from sulphate
21% KOH + 2 gm LiOH Run regular

Reduced by H replaced by N.
No HgO

wt 5,000
4996 " 5,000

65 Fe Exp. 1538 RQ. 6% MgO
66 Iron Loaded in 1/4" tubes
Short length, regular perforations
Nickel flake between dumps
See new Book 65 = 9.27 gm - 86 temp
66 = 9.09 " - 94 "
Tubes ringed and mounted
singly in grids
Run Regular then ice cold test
on Board.
21% KOH + 2 gm LiOH

35°

67	1730	2435	1050
68	1960	2730	999

35°

69	920	1565	700
70	1020	1640	845

4997	1050	1570
4998	1300	1900

67 Fe R.Q. 1538 6% MgO
68 Iron loaded in 1/4" tubes
No flake.
67 = 8.14 gr. - 61 tamps
68 = 8.23 " - 61 "
See this book
Tubes ringed and mounted in regular way
Run Regular thick cold test on board.

21% KOH + 2 gm LiOH

69 Fe R.Q. 1540 10% MgO.
70 New Iron
69 = 7.24 grams = 18 tamps
70 = 7.01 " = 17 "
Tot. Mid Bot.
.104 .095 .086
.106 .102 .087
Run Regular thin ice cold test on Board.

21% KOH + 2 gm LiOH

4997 Fe L. Cell #1
4998 4997 Weight of active material = 17.30 g
4998 Unweighed
Electr. Fe in Hg
Hg squeezed out
To be run regular—

21% KOH + 2 gm LiOH — prev —

71 1070 1710
72 1000 1575

73 1890 2955
74 1800 2715

75 1960 2950

71 R.A. Fe Exp. 1549 10% MgO Mill drop
72

	Top.	Mid.	Bot.
71 = 6.95 gr. – 19 Tamps	.10"	.090"	.080"
72 = 6.515 " – 18 "	.103	.089	.080"

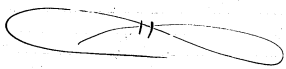
Run Regular thru ice cold on board 21% KOH + 2 gm LiOH

73 R.A. Fe Exp. 1556 10% MgO Mill drop
74 Fe_2O_3 thru 20 Mesh. Reduced & cooled in H. H replaced by N.

	Top.	Mid.	Bot.
73 = 6.67 gr. – 17 tamps	.110"	.105"	.093"
74 = 6.64 " – 18 "	.109	.100	.093

Run Regular thru ice cold on board 21% KOH + 2 gm LiOH

75 R.A. Fe Exp. 1538 6% MgO
6 Horizontal and one vertical strip imbedded in iron.
see new book.
weight of iron about 5.5 gr.
Top = .102" Mid = .102" Bot = .095"
Run Regular thru ice cold on board 21% KOH + 2 gm LiOH



Motion	Reg		35%			
76 R	1850	2870				
77	1765	2870				
78	1260	1860				
79	1170	1795				
4999 –	1700	2740	50	½	H	
			1160	1495	1005	
5000	1000	1710				

76 R.a. Fe. Exp 1557 10% HgO. New brown
77 Fe_2O_3 thru 30 mesh, reduced and cooled in ~~H~~ at 1000° F. ~~H~~ replaced by N.

		Top.	Mid.	Bot.
76 = 8 gr.	27 Temp.	.122	.119	.110
77 = 8.2 "	26 "	.131	.120	.110

Run Regular thru ice cold oil Bath

21% KOH + 2 gm LiOH

78 R.a. Fe Exp ~~1650~~ 1849 6% HgO New brown
79 ~~1444 gr~~

	Top.	Mid.	Bot.
78	.075	.075	.075
79 = 6.01 "	.092	.095	.080

Ice thru Bath

These pockets have spirals of .014 soft iron wire (Ni. plated) running lengthwise in each. Pitch of spiral = 1/16 turns or threads per inch.

21% KOH + 2 gm LiOH

Electrolytic Iron 2.OH #2.

4999 5000. Same as 4997 and 4998

5000. 4999 Same as 4997 and 4998 except smooth pressed 300 Atm Corrugated.

300 Atm all first up in 21% KOH + 2g. LiOH

Hg pressed out in press. Tube made first thin S.P. and Corrugated.

Jan 25, 1912.

					35
			5001		950
			5002		855
			5003		1065
			5004		950
80	1960	2925			
81	2100	3125			
			15 h. O2 at 35°	7 h. O2 at 35°	
			22 h. 35°	60 h. 35°	
82	2110	3190	470	295	
83	2175	3325	370	355	

N

5001 Dup. 2492 Jan 26, 12

5002 " 5,000

5003 " 5,000

5004 " 5,000

21% KOH + 2 gm LiOH Run regular

80 R.A. Fe Exp 1561 10% HgO Neubron
81 Fe_2O_3 thru 80 mesh. Reduced at 800°. Cooled in H. H replaced by N.

			Top	Mid	Bot
80	= 7.47 gr.	= 27 temp	.135	.133	.130
81	= 7.38 "	= 28 "	.141	.135	.127

Run Regular thru ice cold on Board 21% KOH + 2 gm LiOH

82 R.A. Fe Exp 1562 10% HgO Neubron
83 Fe_2O_3 thru 80 mesh. Reduced at 900° F. Cooled in H. H replaced by N.

			Top.	Mid.	Bot.
82	= 7.48 gr.	= 31 temp	.136	.132	.127
83	= 7.48 "	90 "	.131	.130	.129

Run Regular thru ice cold on Board. 21% KOH + 2 gm LiOH

84	865	1300	
85	1140	1725	
86	900	1400	
87	930	1400	

84 R.A.Fe Exp. 1049 6% Hg_2O New Iron
Iron loaded in pocket made
of .005" stock. Top. Mid. Bot.
84 = 6.78 gr = 17 tamps .092 .082 .090
Run Regular then ice Cold
on Board. 21% KOH + 2 gm LiOH

85 R.A.Fe Exp. 1038 6% Hg_2O New Iron
Iron loaded in pocket made
of .005" stock top. Mid. Bot.
85 = 6.47 gr = 16 tamps .095 .091 .086
Run Regular then ice Cold
on Board. 21% KOH + 2 gm LiOH

86 R.A.Fe Exp. 1040 10% Hg_2O New Iron
Iron loaded in pocket made
of .005" Stock top. Mid. Bot.
86 = 7.87 gr = 17 tamp .097 .089 .084
Run Regular then ice cold on
Board. 21% KOH + 2 gm LiOH

87 R.A.Fe 1549 6% Hg_2O New Iron
Iron loaded with strip
down middle of pocket
87 = 5.0 gr. (approx.) TOP MID BOT
.90 .93 .90
Run Regular then ice cold
on Board.
21% KOH + 2 gm LiOH

See loading Exp. Book

Norton	1	1/2	
88	890	1480	
89	1270	1900	

90	1010	1545	
91	960	1545	

92	925	1575	
93	890	1580	

See New Loading Books

88 Regular Iron Lot 1917 Top. MID. BOT.
89 88 = 9.~~875~~ 165 gm. = ~~27~~ 31 tamps (See New Loading Book)
89 = 9.~~700~~ 33 " = ~~26~~ 28 "

Give two (2) forming runs, then turn the cells over to Norton

Exchange condition 21% KOH + 2 gm LiOH

90. R.A. Fe Exp. 1549 6% MgO New Iron Top. MID. BOT.
91 90 = 6.88 gm = 18 tamps (See New Loading Book)
91 = 6.85 " = 15 "

Give two (2) forming runs, then turn the cells over to me, fully charged. 21% KOH + 2 gm LiOH

92 R.A. Fe Exp. 1563 R.A. 10% MgO New Iron
93 Fe_2O_3 thru 80 mesh. Reduced at 1000°F in H. Cooled in H, H replaced by N.

	Top	MID	BOT
92 = 10.11 gm	.110	.114	.110
93 = 10.22 "	.112	.113	.109

92 = 2# tamp 27 tamps
93 = 3# " 30 "

Run Regular then ice cold on Board.

21% KOH + 2 gm LiOH

				15 hr. clay 75° Bin. 350	7 hr. clay 75° Bin. 350
95	1885	2790		1440	1360
				to I.V.	

96 870 1590 | Co
97 900 1600

98 – 575 1/2 878

95 R.A. Fe Exp. 1566 10% MgO New Drum
Fe_2O_3 thru 100 mesh reduced
and cooled in H at 800° F
H replaced by N.
95 = 8.15 gm = 18 Tamps. Top. Mid. Bot.
.117 .118 .112

Run Regular thru ice cold on Board.
21% KOH + 2 gm LiOH

96 R.A. Fe Exp 1064 10% MgO New Drum
97 Fe_2O_3 thru 100 mesh reduced
and cooled in H at 1000° F
H replaced by N. Top Mid Bot
96 = 8.24 gm = 13 tamps. .101 .106 .105
97 = 8.31 " = 13 " .102 .105 .104
Run Regular thru ice cold on
Board 21% KOH + 2 gm LiOH

98 L.O. Fe Exp 5 Electrolytic Iron
Iron ground in mortar until
very fine. Loaded in machine
but without tamping.
98 = 9.24 gm. Top Mid Bot
.100 .104 .100

Run Regular thru ice cold
on Board. 21% KOH + 2 gm LiOH

99	675	1060
100	790	1180

101	835	1275
102	740	1145

103	1160	1845
104	1280	1985

99 L. Ott Fe Exp 5 Electrolytic Iron 8% H_2O
100 Iron ground in mortar with H_2O added after grinding very fine. Loaded in machine without tamping. Top Mid Bot

99 = 9.12 gm = .104 .106 .101
100 = 9.43 " = .113 .110 .104

Run Regular then ice cold on Board 21% KOH + 2 gm LiOH

---

101 L. Ott Fe Exp 5 Elec. Iron 8% H_2O.
102 Iron ground very fine in mortar Loaded regularly in machine

Top Mid Bot
101 = 2 th. tamp = 15 tamps = 10.75 gm .113 .115 .105
102 = 3 " " = 21 " = 11.2 " .123 .121 .113

Run Regular then ice cold on Board 21% KOH + 2 gm LiOH

---

103 R.A. Fe Exp. 1565 10% H_2O Mer Iron
104 Fe_2O_3 thru 100 mesh reduced and cooled in H at 900°F H replaced by N. Top Mid Bot

2" TAMP → 103 = 10.6 gm = 10 tamps .110 .111 .106
1½" " → 104 = 9.76 " = 9 " .110 .110 .106

This Iron is VERY heavy.

Run regular then ice cold on Board.

21% KOH + 2 gm LiOH

105	1195	1800	
106	1290	1950	

35B Spline

107	2900	4300	1735	1499
108	2950	3495	2340	2165
			18 hr. dry	5 hr. 7 hr. dry

105 R.A. Fe Exp. 1567 10% HgO Mix drow
106 Fe_2O_3 thru 100 mesh.
Reduced and cooled in H at 1100° F. H replaced by N.

1½" TAMP

2½" TAMP → 105 = 2.594 gm. = 11 tamp
106 = 8.01 " = 13 "

Top	Mid	Bot
.096	.098	.098
.102	.103	.101

Run regular thru ice cold ow board. 21% KOH + 2 gm LiOH

107 R.A. Fe Exp 1550 10% HgO Mix drow
108 Fe_2O_3 thru 100 mesh, reduced by H. Cooled in H, replaced by N.
This iron feeds with difficulty
These pockets crimped only
Not corrugated.

107 = 1½ lb. tamp 7.775 grams 29 tamps
108 = 2½ " " 8.675 " 24 "

	Top	Mid	Bot
107 =	.118	.130	.128
108 =	.132	.131	.126

Run Regular thru ice cold on Board
21% KOH + 2 gm LiOH

			35	
109	2365	3010	1075	850
110	2570	3595	1700	1565
			to 1V. 15 Lm. Chg.	to 1V. 7 Lm. Chg.

			24	
111	2600	3605	1695	1570
112	1550	2365	1090	1090
			to 1V. 15 Lm. Chg.	to 1V. 7 Lm. Chg.

			35	
113	1325	1975	730	645
			to 1V. 15 Lm. Chg.	to 1V. 7 Lm. Chg.

109 Reg. Storage Battery Iron, Lot 1917
110 Iron loaded in pockets of .005" stock. Crimped only, not corrugated.

109 = 3 lb. tamps = 24 tamps = 9.08 gm
110 = 2 " " = 18 " = 8.98 "

	Top.	Mid.	Bot.
109 =	.126	.135	.130
110 =	.127	.126	.120

Run Regular then ice cold test on Board 21% KOH + 2 gm LiOH

111 Reg. Storage Battery Iron Lot 1917
112 Iron loaded in reg. .003" thick pockets. Crimped only. Not Corrugated Crimped between flat surfaces, not between reg. crimping dies. 23

	Top	Mid	Bot
111 = 2 lb. tamps = 20 tamps = 9.39 gm	.125	.127	.117
112 = 3 " 21½ 2.5 " = 10.46 "	.115	.122	.111

Reg. then cold test

113 S.O.T. Exp #6 Elec. Iron 5% Mg O Iron ground very fine in mortar Put thru 120 mesh.

	Top	Mid	Bot
113 = 2 lb. tamp = 9.01 gm = 20 tamps	.106	.106	.103

Run Regular then Ice Cold on Board.

21% KOH + 2 gm LiOH

	1st Test		35° to 1.V.	
			15 hr. Chg	7 hr. Chg
114	2025	2840	1440	1370
115	2250	3390	1665	1765
116	1950	2850	1330	1250
117	2230	3320	1655	1585
118	2500	3885	1925	1865
119	2100	2970	1445	1365

114 Regular Storage Battery Brand # 1938
115 Pockets Loaded and Cleaned (grouped)
116 at S.B.Co
117

	N°	Weight	Order of Operations
118	114	8.25 gms.	annealed, crimped, corrugated
119	115	8.5 "	annealed, crimped.
	116	7.0 "	crimped, corrugated, annealed.
	117	7.8 "	crimped, annealed.
	118	8.5 "	crimped, annealed.
	119	8.35 "	crimped, annealed, corrugated

The annealing was done in H at the Storage Batt. Co
Crimping done at 150 atm.
Corrugating " " 200 "

		Top	Mid	Bot
calipers	114 =	.112	.112	.109
	115 =	.118	.116	.112
	116 =	.101	.102	.100
	117 =	.111	.110	.105
	118 =	.119	.120	.116
	119 =	.116	.117	.114

Run Regular.
21% KOH + 2 gm LiOH

	IV	1/2	
	10	15	CO

	IV.	1/2
5006	5	10

	30°				
	I.V.	1/2 V.	15 lbs Hg	7 lbs Hg	
5007	1690	2335	870	835	
5008	1620	2270	685	735	
5009	1320	1960	670	510	
5010	1160	1890	340	170	

5005 Goldstein's #917 Fe. March 1, 12
Nitroglycerine made by rolls, and ignited at 1300° F.
21% KOH + 2 gm LiOH Run regular
wt 5.000

5006 Goldstein's Fe #924 Mar 13, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
Pressed in cache

5007 Dally Fe # 5. March 22, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5008 " 5.000

5009 Dally Fe #6 March 22, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5010 " 5.000

	I.V.	.5 V.	15 m. el. (35°)	7 m. el.
5011	1600	2250	750	765
5012	1470	2090	570	510
5013	1290	1850	615	500
5014	1340	1925	755	640
5015	1560	2345	615	550
5016	1710	2440	1020	900
5017	920	1290	385	300
5018	1535	2390	800	600
			Ice cold	
5019	1670	2380	900	
5020	1650	2400	900	

5011 Dalley Dud No 7 March 25-12
21% KOH + 2 gm LiOH run peg
Wt 5.000
5012 " 5.000

5013 Dalley Dr No 8 March 25-12
21% KOH + 2 gm LiOH run peg
Wt 5.000
5014 " 5.000

5015 Dalley Dud 9 Mar 28.12
21% KOH + 2 gm LiOH run peg
Wt 5.000
5116 " 5.000 " "

5017 Dalley Dud No 10 March 28.12
21% KOH + 2 gm LiOH run peg
Wt 5.000
5018 " 5.000 " "

5019 Dalleys Dud No. 11 Apr 1-12
1% KOH + 2 gm LiOH Run peg
Wt 5.000
5020 " 5.000

5021 Dalley Jed No 12 Apr 1-12
21% KOH + 2 gm LiOH Run reg
Wt 5.000
5022 " 5.000

5023 Dalley Jed No 18 Apr 1-12
21% KOH + 2 gm LiOH Run reg
Wt 5.000
5024 " 5.000

5025 Dalley Jed No 14 Apr
21% KOH + 2 gm LiOH
Wt 5.000
5026 " 5.000

5027 Dalley Fe #15 Apr 3, 12
21% KOH / 2 gm LiOH Run regular
wt 5.000
5028 wt 5.000

5029 Dalley Fe #16 Apr 3, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5030 wt 5.000

5031 Dalley Jed No 17 April 5-12
21% KOH + 2 gm LiOH Run reg
Cold 35°
Wt 5.000
5032 785/950 Co 5.000

5033 Dalley Jed No 18 April 5-12
21% KOH + 2 gm LiOH Run reg
35° cold
460 Co
Wt 5.000
5034 575 Co 5.000

Results

	1.V.	.5V.	35° (Recorded)		1V	.5V	35°
5021	1500	2280	850	5031	1835	1955	
5022	1150	1860	120	5032	1660	2130	
5023	1200	1675	285 Rec	5033	1150	1605	
5024	1280	1815	380	5034	1510	2190	
5025	1075	1560	175				
5026	1160	1685	140				
5027	1365	1900	460				
5028	1190	1790	000				
5029	1535	2180	55				
5030	1515	2215	215				

Do not enter all data on the left hand page as you did on previous page.

	1st test		Cool 35°	
5039	1560	2275	885	
36	1370	2025	990	

	1st test		Cool 35°	
5037	1325	1990	295	
38	1370	2035	385	

	1st test		35° cool	
5039	1660	2390	950	
40	1650	2265	950	

	1st test		Cool 35°	
5041	1325	2180	785	
42	1425	2190	990	

5035 Dally Fe #22 Apr 15, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5036 " 5.000

5037 Dally Fe #23 Apr 15, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5038 " 5.000

5039 Dally Fe #24 Apr 15, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5040 " 5.000

5041 Dally Fe #25 Apr 15, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5042 " 5.000

1	1/2	
7445	1045	no cold Ed
8745	1220	

790	1120	no cold Ed.
900	1325	

1st Ed.		Cold
1400	1950	740

		Cold	
1435	2040	800	35 deg
1250	1970	800	

1st Cold		Cold	
1475	2195	830	35 deg
1500	2180	850.	

5043 Dally Fe #26 Apr 18, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5044 " 5.000

5045 Dally Fe #27 Apr. 18, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5046 " 5.000

5047 Dally Fe #28 Apr 23-12
21% KOH + 2 gm LiOH Run regular
wt 5.000
" "

5048 Dally Fe #29 Apr 23-12
1% KOH + 2 gm LiOH Run regular
wt 5.000
5049 " 5.000

5050 Dally Fe #28 Apr 29, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5051 " 5.000

1st	1/2	Cold 35°	
1440	2080	800	35°
1330	1840	730	

1375	2065	680	35°
1325	2175	800	

30	85
25	80

820	990	Notes.	50	1/2
1030	1240		635	850
			935	1035

5	10
5	10

5052 Dally Fe #30 Apr 29, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5053 " 5,000

5054 Dally Fe #31 Apr 29, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5055 wt 5,000

5056 Anhydrous May 7, 12
Molybdic acid reduced by hydrogen
at 650° 6-8 hrs.
21% KOH + 2 gm LiOH Run regular
wt 5,000
5057 " 5,000

5058 Anhydrous May 7, 12
Cobalt peroxide Co_2O_3
21% KOH + 2 gm LiOH Run regular
wt 5,000
5059 " 5,000

5060 Anhydrous May 7, 12
Manganese dioxide " O_2
21% KOH + 2 gm LiOH Run regular
wt 5,000
5061 " 5,000

0 0
0 5 | Nothing | 0

0 0
0 0 | Nothing | 0

		Good	
1170	1710	674	0
1470	2135	685	

		Good	
1170	1840	690	0
1165	1845	800	

5062 Anhydrous May 7, 12
Chromic oxide reduced by hydrogen
at 1650°F 8 hrs.
21% INCREASE Run regular
wt 5,000
5063 " 5,000

5064 Anhydrous May 7, 12
Neodymium oxide
21% INCREASE Run regular
wt 5,000
5065 " 5,000

120 Regular E.S.B.C.Co Iron Lot 1917
Iron loaded in holes in grid
See New Book.
120 = ~~39~~ 9.75 gms. approx.

5066 Daily Iron # 35 May 8, 12
Run regular
wt 5,000
5067 " 5,000

5068* Daily Iron # 36 May 8, 12
Run regular
wt 5,000
5069 " 5,000

1400	1990	Cold 695	1
1400	2040	590	

1160	1740	Cold 650	1
1130	1740	720	

Nothing

Nothing

1100	1590	Cold 530	1
1420	2075	835	

1075	1715	Cold 690	1
820	1465	470	

5070 Dally Run #37 May 8, 12
Run regular
wt 5,000
5071 " 5,000

5072 Dally Run #38 May 8, 12
Run regular
wt 5,000
5073 " 5,000

5074 #39 Arsenious May 8, 12
Tungstic acid reduced in hydrogen at
1450-60° F Run regular
wt 5,000
5075 " 5,000

5076 #40 Manganic Oxide May 8, 12
reduced in hydrogen at 1450-60° F
Run regular
wt 5,000
5077 " 5,000

5078 Dally Run #41 May 8, 12
Run regular
wt 5,000
5079 " 5,000

5080 Dally Run #42 May 8, 12
Run regular
wt 5,000
5081 " 5,000

5082 Dally Iron #43 May 14, 12
21% KOH / 2 gm LiOH Run regular
wt 5.000
5083 " 5.000

5084 Dally Iron #44 May 14, 12
21% KOH / 2 gm LiOH Run regular
wt 5.000
5085 " 5.000

5086 Dally Iron #45 May 14, 12
21% KOH / 2 gm LiOH Run regular
wt 5.000
5087 " 5.000

5088 Dally Iron #46 May 14, 12
21% KOH / 2 gm LiOH Run regular
wt 5.000
5089 " 5.000

5090 Dally Iron #47 May 14, 12
21% KOH / 2 gm LiOH Run regular
wt 5.000
5091 " 5.000

5092 Dally Iron #48 May 14, 12
21% KOH / 2 gm LiOH Run regular
wt 5.000
5093 " 5.000

1V	1/2	
710 -	925	
860	1070	

690	845	
470	1330	

1335	1720	
1320	1790	

		Reduced 32	various bad
1745	2675	1110	
1930	2900	995	

1250	1690	
1225	1565	

5094 Dally Iron #49 May 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5095 " 5.000

5096 Dally Iron #50 May 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5097 " 5.000

5098 Dally Iron #51 May 22, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5099 " 5.000

5100 Dally Iron #52 May 22, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5101 " 5.000

5102 Dally Iron #53 May 28, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5103 " 5.000

810 1035
1120 1200

65 80
60 75

1060 1185
1190 1525

1400 2168
1580 2335

Cold 32°
880
660

Varnish Cooling

5104 Dally Iron #54 May 28, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5105 " 5,000

5106 Dally Iron #55 May 28, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5107 " 5,000

5108 Dally Iron #56 May 28, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5109 " 5,000

5110 Helfin #1581 May 28, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5111 " 5,000
150 grams red Iron no 1208 loaded by wt 12 was was screened thru 20 mesh and reduced no Helfin

time	Temp	Time	Temp	Time	Temp
9	700°	12.0	1050	4.00	1060
			1020	4.30	1060
10	830	1.00	1080		off
11	960	2.00	1180		

The pot allowed to cool over night then air after passing thru 40 grams Pyrogallic in 1 Litre 33% KOH and stirring well over

	1 vol	1/2
5112	30	85
5113	30	85

5114	985	1460
5115	1365	1990

Cold 32°

		1/2			
5116	1770	2595	1060		
5117	1865	2825	1175		

iron sulphate was passed through pot for 2 hrs. pot the open Iron was good gray
Mixed with Hg_2O by grinding in motor until screenings gone
7 through 188 M 57.7 o/o
" 100 M 32.7 o/o
on " " 9.6 o/o
Data S.W. of red 12
" " after Reducing 11.2
" " " mixing Hg_2O 10.9

5112 Dally Iron #57 June 9, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5113 " 5.000

5114 Dally Iron #58 June 3, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5115 " 5.000

5116 Dally Iron #59 June 10, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5117 wt 5.000

		½		Cold 35°
5118	1875	2680		1300
5119	1845	2770		1125
5120	830	1050		
5121	875	1255		
				Cold 32°
5122	1600	2345		490
5123	1700	2610		530
				Cold 35°
5124	1550	2330		90
5125	1740	2635		140
5126	190	230		
5127	25	40		

5118 Dally Iron #60 June 10, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5119 " 5,000

5120 Dally Iron #61 June 10, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5121 " 5,000 (not corrugated)

5122 Dally Iron #62 June 10, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5123 " 5,000

5124 Dally Iron #63 June 10, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5125 " 5,000

5126 Dally Iron #64 June 10, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5127 " 5,000
(not corrugated)

1	1/2	Cold Coal
1600	2375	975
1600	2465	895
1740	2650	Cold Coal
1600	2360	770
		590
1190	1585	
860	1090	
1600	2460	Cold
1530	2350	445
		370
1620	2490	Cold
1650	2560	355
		335

5128 Dally Iron #65 June 12, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5129 " 5.000

5130 Dally Iron #66 June 13, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5131 " 5.000

5132 Dally Iron #67 June 13, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5133 wt 5.000
(Not corrugated)

5134 Dally Iron #68 June 13, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5135 " 5.000

5136 Dally Iron #69 June 13, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5137 " 5.000

850	1235		
1190	1720		
1885	2815	C.E.C.	
1785	2650	785	
		595	
1810	2725	C.E.C.	
1890	2775	270	
		390	
1555	2215		
1525	2255		
1255	1935		
1255	1905		

5138 Dally Iron #70 June 13, 12
21% KOH, 2 gm LiOH Run regular
wt 5.000
5139 " 5.000 Not corrugated

5140 Dally Iron #71 June 17, 12
21% KOH, 2 gm LiOH Run regular
wt 5.000
5141 " 5.000

5142 Dally Iron #72 June 17, 12
21% KOH, 2 gm LiOH Run regular
wt 5.000
5143 " 5.000

5144 Dally Iron #73 June 17, 12
21% KOH, 2 gm LiOH Run regular
wt 5.000
5145 " 5.000
(Not corrugated)

5146 Dally Iron #74 June 17, 12
21% KOH, 2 gm LiOH Run regular
wt 5.000
5147 " 5.000

1240	1925	
1237	1820	
1490	2150	
1275	1945	
975	1215	
1565	2100	
		Cold 35°
1690	2495	645
1565	2300	665
1500	2250	
1590	2285	

5148 Daily Iron #75 June 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5149 " 5.000

5150 Daily Iron #76 June 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5151 wt 5.000 (Not corrugated).

5152 Daily Iron #64 June 20, 12
21% KOH + 2 gm LiOH Run regular
wt 7.000
5153 " 7.000
Duplicate of 5126-27 (Not corrugated)

5154 Daily Iron #77 June 20, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5155 " 5.000

5156 Daily Iron #78 June 20, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5157 " 5.000

1690	2465	Cold 580
1595	2300	665
1260	1740	
1275	1670	
1170	1700	
1155	1655	
1445	2380	Cold 740
1700	2315	665
1490	2020	
1350	1845	

5158 Dally Iron # 79 June 20, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5159 " 5,000
(Not corrugated)

5160 Dally Iron # 80 June 24, 2
21% KOH + 2 gm LiOH Run regular
wt 5,000
5161 " 5,000

5162 Dally Iron # 81 June 24, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5163 " 5,000

5164 Dally Iron # 82 June 24, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5165 " 5,000
(Not corrugated)

5166 Dally Iron # 83 June 24, 12
wt 5,000
5167 " 5,000
21% KOH + 2 gm LiOH Run regular

1390 1920
1335 1770

1440 2300 (Cold) 150
1670 2255 155

1320 1900
1095 1385

1305 1865
1400 1980

1600 2260
1560 2180

5168 Dally Iron #84 June 24, 12
21% KOH ; 2 gm LiOH Run regular
wt 5.000
5169 " 5.000

5170 Dally Iron #85 June 24, 12
21% KOH ; 2 gm LiOH Run regular
wt 5.000
5171 " 5.000
(Not corrugated)

5172 Dally Iron #86 June 29, 12
21% KOH ; 2 gm LiOH Run regular
wt 5.000
5173 " 5.000

5174 Dally Iron #87 June 29, 12
21% KOH ; 2 gm LiOH Run regular
wt 5.000
5175 " 5.000

5176 Dally Iron #88 June 29, 12
21% KOH ; 2 gm LiOH Run regular
wt 5.000
5177 " 5.000
[Not corrugated]

5178-9	1450 1465	2075 2140	
1310 1400	1425 1925		
			35 Cal'd
5182-3	1775 1800	2512 2500	600 566
1200 1280	1695 1715		
1190 1185	1460 1630		

5178 Dally Run #89 June 29, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5179 " 5,000

5180 Dally Run #90 June 29, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5181 " 5,000

5182 Dally Run #91 June 29, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5183 " 5,000
(Not corrugated)

5184 Dally Run #92 July 8, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5185 " 5,000

5186 Dally Run #93 July 8, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5187 " 5,000

~~[illegible]~~

1450 1895
1460 1940

1295 1765
1285 1775

1545 2175
1465 2065

1540 2035
1450 1930

1490 2075
1490 2070

1760 2575 Run cond
1695 2400

5188 Daily Run #94 July 8, 12
21% KOH + 2 gm LiOH Run regulan
wt 5,000
5189 wt 5,000 (not corrugated)

5190 Daily Run #95 July 8, 12
21% KOH + 2 gm LiOH Run regula
wt 5,000
5191 " 5,000

5192 Daily Run #96 July 8, 12
21% KOH + 2 gm LiOH Run regulan
wt 5,000
5193 " 5,000

5194 Daily Run #97 July 8, 1
21% KOH + 2 gm LiOH Run regula
wt 5,000
5195 " 5,000 (not corrugated)

5196 Daily Run #98 July 8, 12
21% KOH + 2 gm LiOH Run regula
wt 5,000
5197 " 5,000

5198 Daily Run #99 July 8
21% KOH + 2 gm LiOH Run regulan
wt 5,000
5199 wt 5,000

1300	1760	
1535	2070	
		Cold 35
1750	2475	415
1700	2415	330
		Cold 35
1895	2790	230
1770	2600	180
650	1665	
65	70	

5200 Dally Iron #100 July 8, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5201 " 5.000
(Not corrugated)

5202 Dally Iron #101 July 11, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5203 " 5.000

5204 Dally Iron #102 July 11, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5205 " 5.000

5206 Dally Iron #103 July 11, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5207 " 5.000
(Not corrugated)

5208 Dally Iron #104 July 15, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5209 " 5.000

5210 Selby Iron # 105 July 15, 1912
21% KOH + 2 gm LiOH
Wt 5.000
5211 " " 5.000

5212 Selby Iron # 106 July 15, 1912
21% KOH + 2 gm LiOH
Wt 5.000
5213 " 5.000
(Not corrugated)

5214 Selby Iron # 101 July 20, 12
21% KOH + 2 gm LiOH
Wt 5.000
5.000 g.

5219 Selby Iron # 103 July 20-12
21% KOH + 2 gm LiOH
wt 5.000
defs. (7142-5206-07.)
5215 " 5.000
(Not corrugated)

5210 Selby Iron # 104 July, 2012
wt 5.000
defs. (Nos 5208-09)
5217 " 5.000
21% KOH + 2 gm LiOH

Cold Tool.
1075 1435
1635 2250

Cold
1700 2465
1625 2240

965 1245 Calcd
1965 2535

1900 2625 Calcd
1315 1935

1020 1500
1105 1630

1085 1685
950 1360

965 1350
960 1295

5218 Nally Iron #105 July 20-12
21% KOH + 2 gm LiOH running.
wt 5.000
dupl. (Nos 5210-11)

5219 " 5.000

5220 Nally Iron #106 July 20-12
21% KOH + 2 gm LiOH running.
wt 5.000

5221 " 5.000 Not Corrugated

5222 Nally Iron #107 July 20-12
21% KOH + 2 gm LiOH running.

wt 5.000

5223 wt 5.000

5224 Nally Iron #108 July 20-12
KOH + 2 gm LiOH running.

wt 5.000

5225 " 5.000

5226 Nally Iron #109 July 20-12
wt 5.000

5227 wt 5.000 KOH + 2 gm LiOH
(Not Corrugated)

Cal'd

1925	2870
2035	3020
1745	2550
1700	2505
1700	2525
1660	2450

1435	2105
1565	2290

1600	2365
1600	2400

1380	1925
1425	1990

1585	2195
1595	2170

1865	2740
1250	1800

5228 Nally Iron #102 Aug 3 342
21% KOH + 2 gm LiOH
wt 5.000 Long Endurance
5229 " " "
5230 " " Test
5231 " " By order of
5232 " " Mr. Edison
5233 " "

5234 Nally Iron # 110 Aug 3-12
21% KOH + 2 gm LiOH unreg.
wt 5.000
5235 " 5.000

5236 Nally Iron # 111 Aug 3-12
21% KOH + 2 gm LiOH unreg.
wt 5.000
5237 " 5.000

5238 Nally Iron # 112 Aug 3-12
21% KOH + 2 gm LiOH unreg.
wt 5.000
5239 " 5.000 (not corrugated)

5240 Nally Iron # 113 Aug 6-12
21% KOH + 2 gm LiOH unreg.
wt 5.000
5241 " 5.000

5242 Nally Iron # 114 Aug 6-12
21% KOH + 2 gm LiOH unreg.
wt 5.000
5243 " 5.000

550 735
675 890

1500 2645 Cold
1770 2535

1930 2590 Cold
1950 2665

840 1195 Co
210 250

1125 1585 Co
1250 1800

1325 1940 Co
1260 1849

5244 Dally Iron # 115 Aug 15-12
21% KOH + 2 gm LiOH running
wt 5.000
5245 " 5.000 not corrugated

5246 Dally Iron # 116 Aug 15, 12
21% KOH + 2 gm LiOH Rim req
wt 5.000
5247 " 5.000

5248 Dally Iron # 117 Aug 15, 12
21% KOH + 2 gm LiOH Rim req
wt 5.000
5249 " 5.000

5250 Dally Iron # 118 Aug 15, 12
21% KOH + 2 gm LiOH Rim req
wt 5.000
5251 " 5.000
(not corrugated)

5252 Dally Iron # 119 Aug 15, 12
21% KOH + 2 gm LiOH Rim req
wt 5.000
5253 " 5.000

5254 Dally Iron # 120 Aug 15, 12
21% KOH + 2 gm LiOH Rim req
wt 5.000
5255 " 5.000

445 600 | G
850 1125

1125 1615 | G
1385 2000

1530 2300 | Cold Dest
1700 2555

845 1120 | G
545 765

1560 2200 Run Cold
1600 2265

5256 Dally Iron #121 Aug 15, 12
21% KOH + 2 gm LiOH Run neg
wt 5.000
5257 " 5.000
(not corrugated)

5258 Dally Iron #122 Aug 15, 12
21% KOH + 2 gm LiOH Run neg
wt 5.000
5259 " 5.000

5260 Dally Iron #123 Aug 15, 12
21% KOH + 2 gm LiOH Run neg
wt 5.000
5261 " 5.000

5262 Dally Iron #124 Aug 15, 12
21% KOH + 2 gm LiOH Run neg
wt 5.000
5263 " 5.000
(not corrugated)

5264 Dally Iron #125 Aug 15, 12
21% KOH + 2 gm LiOH Run neg
wt 7.000
5265 " 7.000

Rods

1630 2410
2000 3015

185
175

1255 1770
0 0

1290 1890
1575 2600

25
35

1685 2455 Rod test
1690 2475

5266 Daily Iron #126 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 7.000
5267 " 7.000

5268 Daily Iron #127 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 7.000
5269 " 7.000 Not congeated

5270 Daily Iron #128 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5271 " 5.000

5272 Daily Iron #129 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5273 " 5.000

5274 Daily Iron #130 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5275 " 5.000 (Not congeated)

5276 Daily Iron #131 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5277 " 5.000

1650 2450 Cold
1458 2190

1485 2080
920 960

0 0 B 2nd Lot hand tested
975 1265 830
1600

1975 2970 Cold
1580 2160 2nd Lot B hand tested
1700
1950

355 445 2nd Lot B - hand tested
20 445 550
1145

5278 Dally Iron #132 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5279 " 5.000

5280 Dally Iron #133 Aug 15, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5281 " 5.000 (Not corrugated)

5282 Dally Iron #134 Sept 5, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5283 " 5.000

5284 Dally Iron #135 Sept 5, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5285 " 5.000

5286 Dally Iron #136 Sept 5, 12
21% KOH + 2 gm LiOH Run reg
wt 5.000
5287 " 5.000
Not corrugated

5288 Daily Inv. 137 Sept. 5, 12
21% KOH + 2 gm LiOH Chinney
wt 5,000
5289 " 5,000

See Book on Hand for Loading Explosivity

121 Regular E.S.B.Co Iron #2112
122 Loaded by hand
121 = 0 gm FeO
122 = " "
Run Regular
21% KOH + 2 gm LiOH

123 Regular E.S.B.Co Iron Mix #2112
124 Loaded by hand
123 = 0 gm FeO
124 = " "
Run Regular
21% KOH + 2 gm LiOH

125 Regular E.S.B.Co Iron #2112
126 Loaded by hand
125 = 0 gm FeO
126 = " "
Run Regular
21% KOH + 2 gm LiOH

1800 2645 Run cartridge
1770 2535

2030 2800 Run Caddle
2200 3000 450 Westinghouse Over Hot
1350 - 1 C

See Book on Next from Loading Experiments

127 Regular E.S.B.Co Iron # 2112
128 Pockets Loaded by Hand
127 - 5 gm TEO
128 - " "
Run Regular
21% KOH + 2 gm LiOH

129 Regular E.S.B.Co Iron #2112
130 Pockets Loaded by Hand
129 - 5 gm TEO
130 - " "
Run Regular
21% KOH + 2 gm LiOH

131 Regular E.S.B Co Iron # 2112
132 Loaded by Hand
131 - 5 gm. TEO
132 - " "
Run Regular
21% KOH + 2 gm LiOH

133 Regular E.S.B.Co Iron #2112
134 Hand Loaded
133 - 5 gm TEO
134 - " "
Run Regular
21% KOH + 2 gm LiOH

1675 2475 Run Cold Lost
1680 2480 Run 5#
1100 400
1195 36%
Co

There is some mechanical reason for Iron going bad Cold

Cold
255
325
Co

Cold
295
435
380
390
290
Co

435
340
380
400
420
Co.

See Loading Book

135 Regular E.S.B.Co Iron #2112
136 Hand Loaded
135 = 5gm - FeO
136 " " "
Run Regular
21% KOH + 2 gm LiOH

137 Regular E.S.B.Co Iron #2112
138 Hand Loaded
137 = 5gm FeO
138 = " "
Run Regular
21% KOH + 2 gm LiOH

See New Iron Loading & Experiments Book

139 Regular E.S.B.Co Iron #2112
140 Hand Loaded
141 139 = 5gm. FeO
142 140 = " "
143 141 = " "
144 142 = " "
145 143 = " "
146 144 = " "
147 145 = " "
148 146 = " "
147 = " "
148 = " "
Run Regular
21% KOH + 2 gm LiOH

1395
1370

240
195

149 Regular E.S.B.Co Mix #2112
150 Hand Loaded
149 = 5gm FeO
150 = " "
Run Regular Then ice cold on Board
21% KOH + 2 gm LiOH

151 Iron filings thru 100 mesh
152 151 = 11.20 gms.
152 = 12.98 "
Run regular then ice cold on Board
21% KOH + 2 gm LiOH

5290 Daily Iron #138 Sept 5, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000-?
5291 " 5.000-?

5292 Daily Iron #139 Sept 5, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5293 wt 5.000
Not corrugated

1600 2360 1700 2525	Coldcast	5294 Dally Drm # 140 Sept 10, 12 21% KOH + 2 gm LiOH Run regular wt 5,000 5295 " 5,000
1700 2540 1635 2370	Coldcast	5296 Dally Drm # 141 Sept 10, 12 21% KOH + 2 gm LiOH Run regular wt 5,000 5297 " 5,000
1675 2460 1350 1925		5298 Dally Drm # 142 Sept 10, 12 21% KOH + 2 gm LiOH Run regular wt 5,000 5299 " 5,000 (Not corrugated)
1125 1600 1140 1565		5300 Dally Drm # 143 Sept 10, 12 21% KOH + 2 gm LiOH Run regular wt 5,000 5301 " 5,000
1115 1620 1240 1910		5302 Dally Drm # 144 Sept 10, 12 21% KOH + 2 gm LiOH Run regular wt 5,000 5303 " 5,000
1130 1555 1100 1505		5304 Dally Drm # 145 Sept 10, 12 21% KOH + 2 gm LiOH Run regular wt 5,000 5305 " 5,000 (Not corrugated)

1660 2365
1880 2765

Cold test

1765 2545
1665 2445

Cold test

1485 2100
1600 2280

1565 2255
1590 2285

1525 2195
1560 2265

5306 Daily Iron #146 Sept 11, 12
21% KOH + 2 gm LiOH Run regular
wt 4.828
5307 " 5.190
Loaded by machine

5308 Daily Iron #147 Sept 11, 12
21% KOH + 2 gm LiOH Run regular
wt 5.272
5309 " 5.302
Loaded by machine.

5310 Daily Iron #148 Sept 11, 12
21% KOH + 2 gm LiOH Run regular
wt 4.655
5311 " 4.710
Loaded by machine (Not corrugated)

5312 Daily Iron #149 Sept 11, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5313 " 5.000
Loaded by hand

5314 Daily Iron #150 Sept 11, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5315 " 5.000 Loaded by hand

1535 2180
1485 2095

5316 Dally Iron #151 Sept 11, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5317 " 5,000
Loaded by hand (Not conjugated)

5318 Dally Iron #146 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5319 " 5,000
Dup of 5306-07 only loaded by hand.

5320 Dally Iron #147 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5321 " 5,000
Dup of 5308-09 only loaded by hand.

5322 Dally Iron #148 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5323 " 5,000
Dup of 5310-11 only loaded by hand.

5324 Dally Iron #152 Sept , 12
21% KOH + 2 gm LiOH Run regular
wt 5,000
5325 " 5,000 loaded by hand.

5326 Dally Iron #153 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5327 " 5.000
Loaded by hand.

5328 Dally Iron #154 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5329 " 5.000
(Not corrugated), Loaded by hand.

5330 Dally Iron #155 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5331 " 5.000
, Loaded by hand.

5332 Dally Iron #156 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5333 " 5.000
, Loaded by hand.

5334 Dally Iron #157 Sept 17, 12.
21% KOH + 2 gm LiOH Run regular
wt 5.000
5335 " 5.000
(Not corrugated) Loaded by hand.

5336 Dally Iron #158 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5337 " 5.000
Loaded by hand.

5338 Dally Iron #159 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5339 " 5.000
Loaded by hand.

5340 Dally Iron #160 Sept 17, 12
21% KOH + 2 gm LiOH Run regular
wt 5.000
5341 " 5.000
(Not corrugated), Loaded by hand

5342 Hunter Fu #2283 Nov 20, 12
Run reg
wt 5.000
5343 " 5.000
Not loaded.

III

7-11-06

Cold Tubes

Cell	1	2	3	5	4	
2	330	350	359	370	327	after 827 Hot Runs
3	480	497	498	515	455	
4	476	490	495	491	417	
6	432	442	447	448	407	
8	400	412	415	425	380	
12	387	427	445	472	406	after 800 Hot Runs
28	400	417	425	437	395	after 750 Hot Runs
35	277	297	312	322	290	
83	365	385	392	400	365	after 700 Hot Runs
154	475	487	492	502	455	
160	435	462	467	480	425	
218	415	475	487	497	447	after 650 Hot Runs
231	515	550	560	585	512	after 500 Hot Runs,
232	440	467	477	490	432	
233	567	583	590	602	540	
234	650	672	678	695	632	after 150 Cold Runs
235	410	422	427	435	395	" 500 Hot Runs
236	432	450	450	462	417	" 650 Total Runs,
273	660	697	706	917	657	after 550 Hot Runs.
282	470	520	540	552	475	
287	385	417	432	450	380	
288	342	227	387	387	340	
305	201	225	240	253	245	
306	580	620	627	630	550	
307	222	247	262	287	277	
Cell	July 11	12	13	15	14	

#2 Split a little.
12 Seam open a little.
218 Seam started to open.
231 " " " "
232 " " " "
234 Started to split a little
235 " " " " "
236 " " " " "
273 Split.
282 "

#287 Started to split top & bottom
305 Badly split.
307 Very badly split.
160 Started to split.

E. H. H. Jr.

[ITEM FOUND IN BOOK]